U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

1194460

SEARCH REQUEST FORM

Requestor's Name: Hong Liu

Serial Number: 10/070,769

Date: 4/15/04

Phone: 2-0669

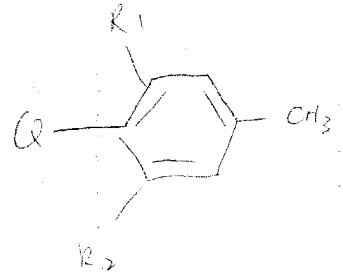
Art Unit: 1624

Ken 5C11 Mail 5C18

Search Topic:

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevent citations, authors, keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevent claim(s).

Barb phase



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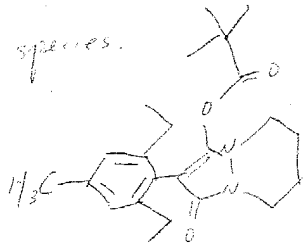

(1.02) p. 113

Novel hybrides

Maetzke
Stoller
Wendeborn
Szczepanski

STAFF USE ONLY

Date completed: 4-16-04

Searcher: Linda

Terminal time: 18

Elapsed time: prep 25

CPU time:

Total time:

Number of Searches:

Number of Databases:

Search Site

- ____ STIC
- ____ CM-1
- ____ Pre-S

Type of Search

- ____ N.A. Sequence
- ____ A.A. Sequence
- 1 Structure
- ____ Bibliographic

Vendors

- ____ IG
- 266 STN
- ____ Dialog
- ____ APS
- ____ Geninfo
- ____ SDC
- ____ DARC/Questel
- ____ Other

PTO-1590 (8-90)

STIC SEARCH RESULTS FEEDBACK FORM

Biotech-Chem Library

Questions about the scope or the results of the search? Contact ***the searcher or contact***:

Mary Hale, Information Branch Supervisor
Remsen Bldg. 01 D86
571-272-2507

Voluntary Results Feedback Form

- *I am an examiner in Workgroup:* ☐ *Example: 1610*
- *Relevant prior art **found**, search results used as follows:*
  - ☐ 102 rejection
  - ☐ 103 rejection
  - ☐ Cited as being of interest.
  - ☐ Helped examiner better understand the invention.
  - ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
  (journal articles, conference proceedings, new product announcements etc.)

- *Relevant prior art **not found**:*
  - ☐ Results verified the lack of relevant prior art (helped determine patentability).
  - ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC-Biotech-Chem Library, Remsen Bldg.

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=> fil reg; d stat que l7; fil capl; d que nos l8; fil uspatf; d que nos l9
FILE 'REGISTRY' ENTERED AT 16:40:41 ON 16 APR 2004
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Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES:   15 APR 2004  HIGHEST RN 675818-37-8
DICTIONARY FILE UPDATES:  15 APR 2004  HIGHEST RN 675818-37-8

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html
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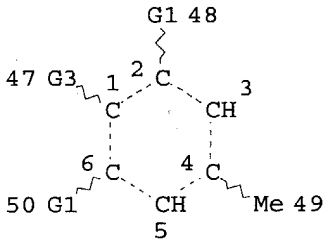
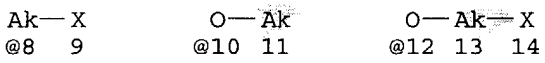
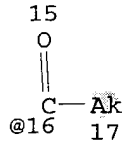
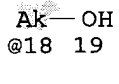
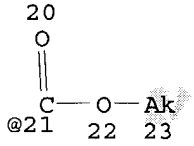
L4 STR

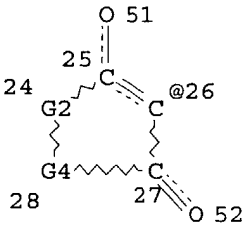


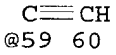












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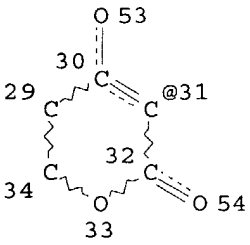

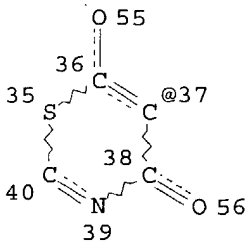

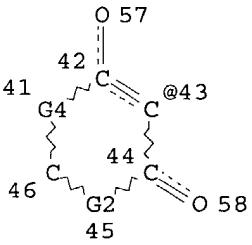

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VAR G2=C/N
VAR G3=26/31/37/43
VAR G4=O/S/C/N
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ECOUNT IS X2 C AT 23

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 59

STEREO ATTRIBUTES: NONE
L7 174 SEA FILE=REGISTRY SSS FUL L4

100.0% PROCESSED 27872 ITERATIONS 174 ANSWERS
SEARCH TIME: 00.00.02

FILE 'CAPLUS' ENTERED AT 16:40:41 ON 16 APR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 16 Apr 2004 VOL 140 ISS 17
FILE LAST UPDATED: 15 Apr 2004 (20040415/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

L4 STR
L7 174 SEA FILE=REGISTRY SSS FUL L4
L8 13 SEA FILE=CAPLUS ABB=ON L7

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FILE 'USPATFULL' ENTERED AT 16:40:41 ON 16 APR 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 15 Apr 2004 (20040415/PD)
FILE LAST UPDATED: 15 Apr 2004 (20040415/ED)
HIGHEST GRANTED PATENT NUMBER: US6721958
HIGHEST APPLICATION PUBLICATION NUMBER: US2004073984
CA INDEXING IS CURRENT THROUGH 15 Apr 2004 (20040415/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 15 Apr 2004 (20040415/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2004
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2004

>>>  USPAT2 is now available.  USPATFULL contains full text of the     <<<
>>>  original, i.e., the earliest published granted patents or         <<<
>>>  applications.  USPAT2 contains full text of the latest US         <<<
>>>  publications, starting in 2001, for the inventions covered in     <<<
>>>  USPATFULL.  A USPATFULL record contains not only the original     <<<
>>>  published document but also a list of any subsequent              <<<
>>>  publications.  The publication number, patent kind code, and      <<<
>>>  publication date for all the US publications for an invention     <<<
>>>  are displayed in the PI (Patent Information) field of USPATFULL   <<<
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>>>  /PK, etc.                                                         <<<

>>>  USPATFULL and USPAT2 can be accessed and searched together        <<<
>>>  through the new cluster USPATALL.  Type FILE USPATALL to          <<<
>>>  enter this cluster.                                               <<<
>>>                                                                    <<<
>>>  Use USPATALL when searching terms such as patent assignees,       <<<
>>>  classifications, or claims, that may potentially change from     <<<
>>>  the earliest to the latest publication.                           <<<

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substance identification.


L4              STR
L7          174 SEA FILE=REGISTRY SSS FUL L4
L9            5 SEA FILE=USPATFULL ABB=ON  L7


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PROCESSING COMPLETED FOR L8
PROCESSING COMPLETED FOR L9
L11            18 DUP REM L8 L9 (0 DUPLICATES REMOVED)
                  ANSWERS '1-13' FROM FILE CAPLUS
                  ANSWERS '14-18' FROM FILE USPATFULL

=> d ibib ed abs hitstr 1-18; fil cao; d que nos l10; fil hom

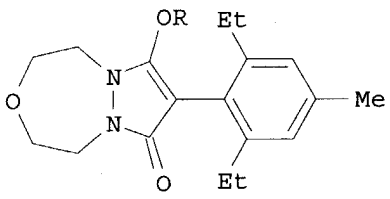
L11  ANSWER 1 OF 18  CAPLUS  COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:         2003:591187  CAPLUS
DOCUMENT NUMBER:          139:149659
TITLE:                    Preparation of phenyl substituted heterocyclic
                          compounds for use in herbicide compositions
```

INVENTOR(S): Friedmann, Adrian Alberto; Stoller, Andre; Wendeborn, Sebastian
PATENT ASSIGNEE(S): Syngenta Participations Ag, Switz.
SOURCE: PCT Int. Appl., 81 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003062244	A1	20030731	WO 2003-EP555	20030121

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: CH 2002-119 A 20020122
OTHER SOURCE(S): MARPAT 139:149659
ED Entered STN: 01 Aug 2003
GI

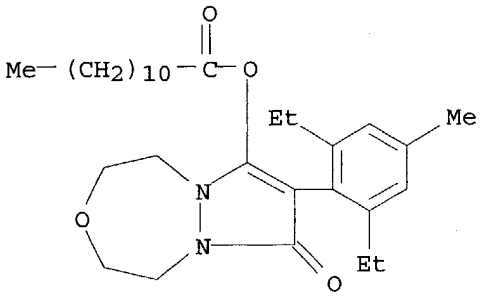


I

AB Heterocyclyl fatty acid esters, such as I [R = fatty acid acyl, such as lauroyl, palmitoyl, oleoyl or stearoyl], were prepd. for use as herbicides. Thus, 8-(2,6-diethyl-4-methylphenyl)tetrahydro-7H-pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione was reacted with lauroyl chloride using Et3N in THF to form ester I (R = lauroyl). The prepd. esters were tested for herbicidal activity, as well as for phytotoxicity with respect to wheat, by application to pots of soil sown with monocotyledonous and dicotyledonous weeds and summer wheat.

IT **571166-78-4P 571166-79-5P 571166-80-8P**
571166-81-9P 571166-82-0P 571166-83-1P
571166-84-2P 571166-86-4P 571166-87-5P
571166-88-6P 571166-89-7P
RL: ADV (Adverse effect, including toxicity); AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of fatty acid esters derivs. of 8-(2,6-diethyl-4-methylphenyl)tetrahydro-7H-pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione for use as herbicides)

RN 571166-78-4 CAPLUS
CN Dodecanoic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 571166-79-5 CAPLUS
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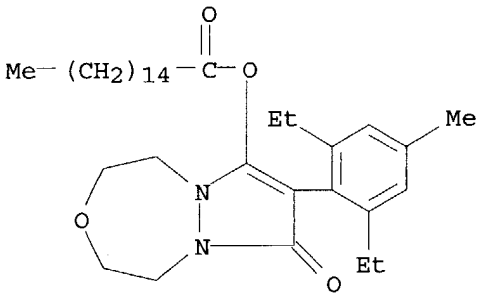
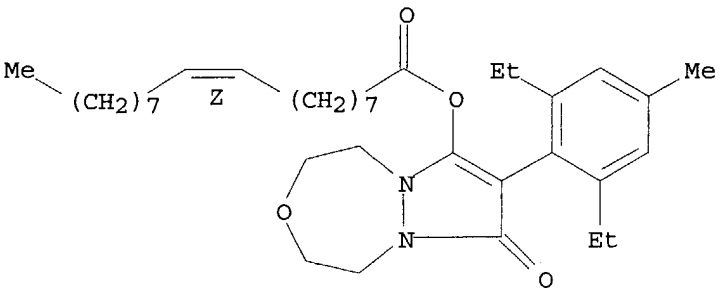
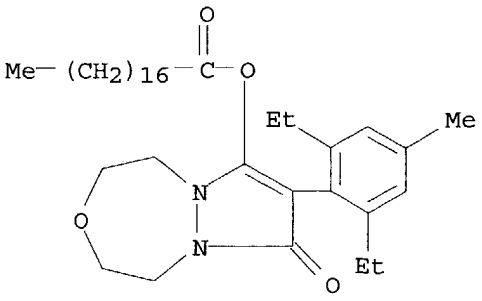


RN 571166-80-8 CAPLUS
CN 9-Octadecenoic acid (9Z)-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

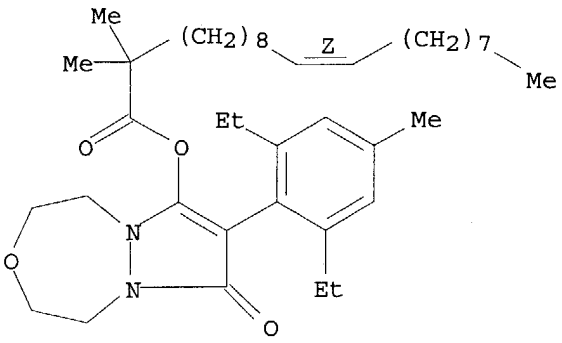


RN 571166-81-9 CAPLUS
CN Octadecanoic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 571166-82-0 CAPLUS
CN 11-Eicosenoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, (11Z)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



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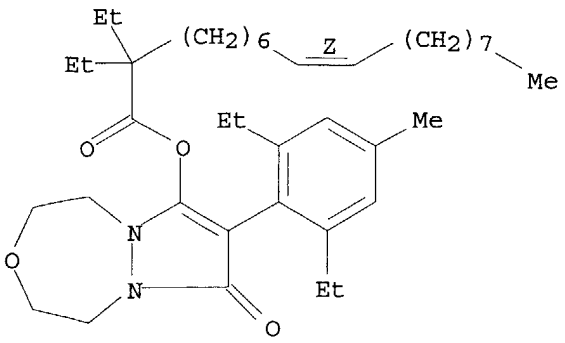
CN 9-Octadecenoic acid, 2,2-diethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, (9Z)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



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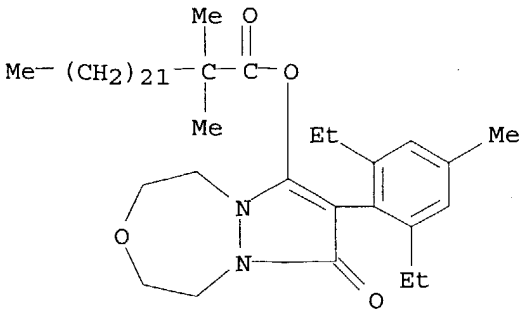

RN 571166-86-4 CAPLUS
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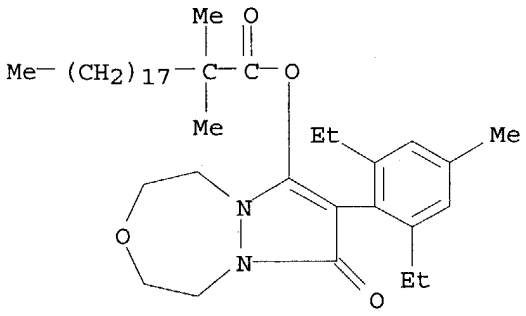

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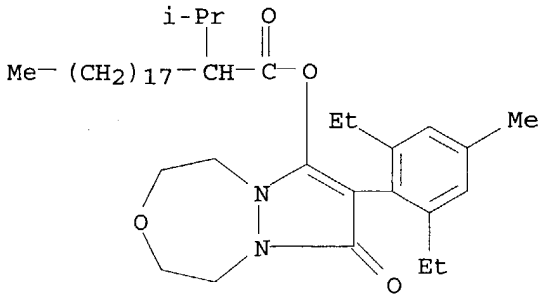
CN Eicosanoic acid, 2-(1-methylethyl)-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



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CN 11-Eicosenoic acid, 2-(1-methylethyl)-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, (11Z)- (9CI) (CA INDEX NAME)

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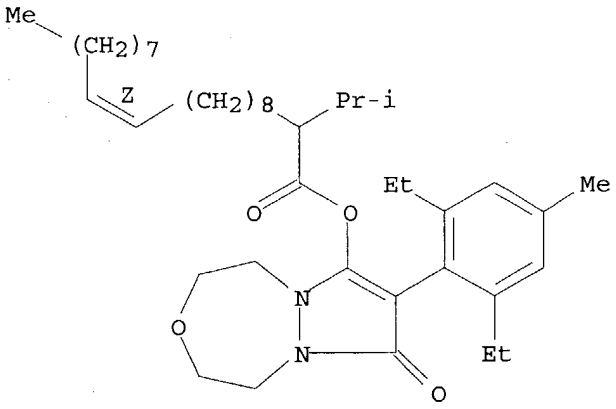

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CN 11-Eicosenoic acid, 2-methyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, (11Z)-(9CI) (CA INDEX NAME)

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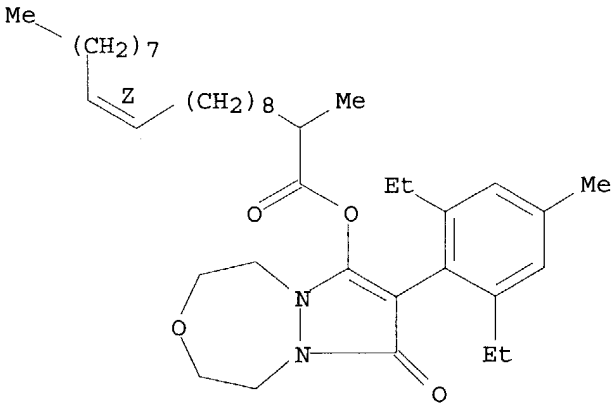
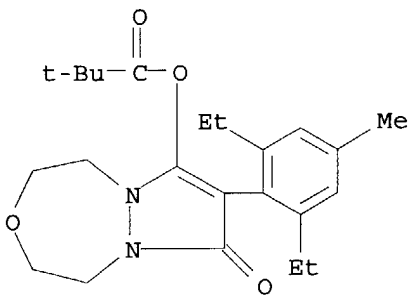


REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L41 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:221440 CAPLUS
DOCUMENT NUMBER: 138:250184
TITLE: Adjuvants for pesticides comprising alkoxylated long-chain alcohols and acids
INVENTOR(S): Bell, Gordon Alastair; Hart, Clifford Arthur; Murfitt, Roger Cyril; Sutton, Peter Bernard
PATENT ASSIGNEE(S): Syngenta Limited, UK
SOURCE: PCT Int. Appl., 16 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

WO 2003022048 A1 20030320 WO 2002-GB3906 20020823
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.: GB 2001-21580 A 20010906
OTHER SOURCE(S): MARPAT 138:250184
ED Entered STN: 21 Mar 2003
AB Adjuvants suitable for use with lipophilic agrochems. comprise alkoxylated long-chain alcs. and acids and their end-capped ethers of the formula (I) R1-(CO)m-O-[-R2O-]n-R3(R1 = C16-C20 (un)branched alkyl or alkenyl; R2 = Et or iso-Pr; n = 8-30; m = 0 or 1; and when R2 = Et, R3 = C1-C7 alkyl, and when R2 = iso-Pr, R3 = H or C1-C7 alkyl, provided that when R1 = oleyl, R2 = iso-Pr and R3 = H, n is not 10). An adjuvant compn. comprising an agrochem. and an adjuvant of formula (I) is also claimed. Adjuvants of the invention show effective bioperformance enhancement despite having little or no surfactant properties.
IT **243973-20-8**
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(adjuvants comprising alkoxylated long-chain alcs. and acids, for)
RN 243973-20-8 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:185730 CAPLUS
DOCUMENT NUMBER: 134:237482
TITLE: preparation of alkylphenylpyrazolines, -pyrroles, -furans, -thiophenes, and -thiazines as herbicides.
INVENTOR(S): Maetzke, Thomas; Stoller, Andre; Wendeborn, Sebastian; Szczepanski, Henry
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.
SOURCE: PCT Int. Appl., 135 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001017972	A2	20010315	WO 2000-EP8656	20000905
WO 2001017972	A3	20010927		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1210333	A2	20020605	EP 2000-965923	20000905
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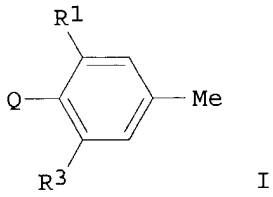
AU 767356	B2	20031106	AU 2000-76503	20000905

PRIORITY APPLN. INFO.: CH 1999-1642 A 19990907
WO 2000-EP8656 W 20000905

OTHER SOURCE(S): MARPAT 134:237482
ED Entered STN: 16 Mar 2001
GI



I

AB Title compds. [I; R1, R3 = Et, haloethyl, ethynyl, alkoxy, haloalkoxy, alkylcarbonyl, hydroxyalkyl, alkoxycarbonyl; Q = (substituted) dioxopyrazolinyl, dioxopyrrolyl, dioxofuranyl, dioxothienyl, dioxopyranyl, dioxothiazinyl, etc.] were prepd. Thus, hexahydropyridazine dihydrobromide and Et3N in xylene were heated at 60.degree. and then di-Et (4-methyl-2,6-diethylphenyl)malonate (analog prepn. is given) was added followed by heating at 150.degree. with distn. of Et3N and EtOH to give 2-(2,6-diethyl-4-methylphenyl)-tetrahydropyrazolo[1,2,a]pyridazine-1,3-dione, which was treated with Et3N in THF, DMAP and Me3CCOCl to give 5-oxo-3-pivaloyl-2(2,6-diethyl-4-methylphenyl)-tetrahydro-pyrazolo[1,2,a]pyridazine. Several I at 500 ppm preemergent and at 250 ppm postemergent gave 50-100% control of Alopecurus, Avena, Lolium, Setaria, Panicum, Sorghum, Digitaria, Echinocloa, and Brachiaria.

IT **329963-02-2P 329963-03-3P 329963-06-6P**
329963-08-8P 329963-10-2P 329963-12-4P
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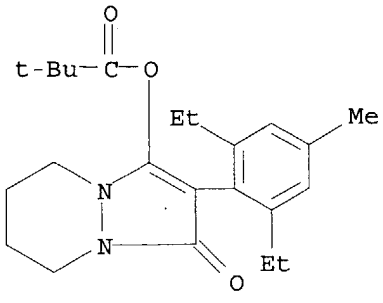
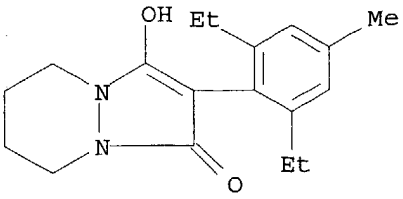
329964-74-1P 329964-75-2P 329964-77-4P
329964-78-5P 329964-80-9P 329964-82-1P
329964-83-2P 329964-85-4P 329964-86-5P
329964-87-6P 329964-88-7P 329964-90-1P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of alkylphenylpyrazolines, -pyrroles, -furans, -thiophenes, or -thiazines as herbicides)

RN 329963-02-2 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)

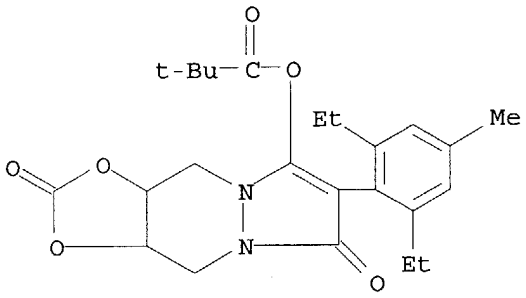


544/235
504/238

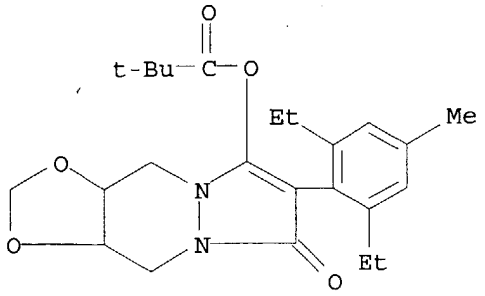
RN 329963-03-3 CAPLUS
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



RN 329963-06-6 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 7-(2,6-diethyl-4-methylphenyl)-3a,4,10,10a-tetrahydro-2,6-dioxo-6H-1,3-dioxolo[4,5-d]pyrazolo[1,2-a]pyridazin-8-yl ester (9CI) (CA INDEX NAME)

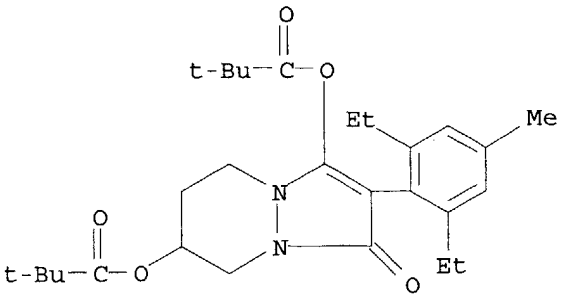


RN 329963-08-8 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 7-(2,6-diethyl-4-methylphenyl)-3a,4,10,10a-tetrahydro-6-oxo-6H-1,3-dioxolo[4,5-d]pyrazolo[1,2-a]pyridazin-8-yl ester (9CI) (CA INDEX NAME)

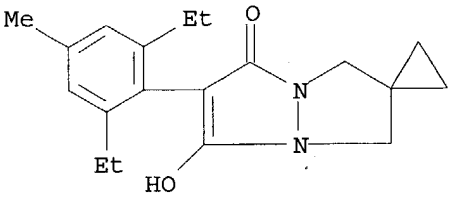


544 | 234
548 | 258

RN 329963-10-2 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazine-3,7-diyl ester (9CI) (CA INDEX NAME)

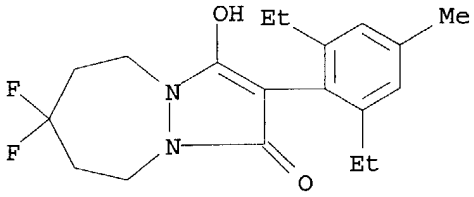


RN 329963-12-4 CAPLUS
CN Spiro[cyclopropane-1,2'(3'H)-[1H,5H]pyrazolo[1,2-a]pyrazol]-5'-one, 6'-(2,6-diethyl-4-methylphenyl)-7'-hydroxy- (9CI) (CA INDEX NAME)



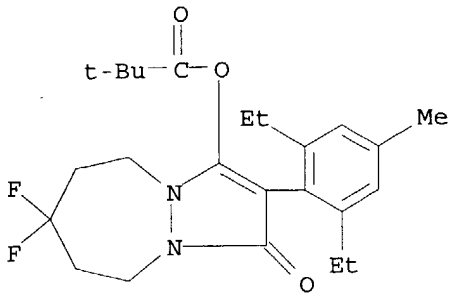
548/363.1
504/281

RN 329963-14-6 CAPLUS
CN 1H,5H-Pyrazolo[1,2-a][1,2]diazepin-1-one, 2-(2,6-diethyl-4-methylphenyl)-7,7-difluoro-6,7,8,9-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



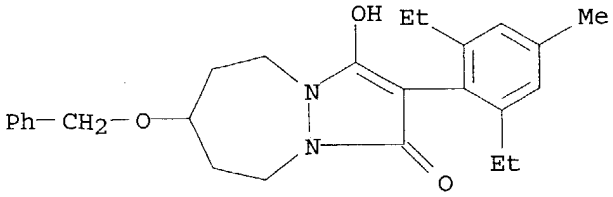
548/567
504/218

RN 329963-16-8 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-7,7-difluoro-6,7,8,9-tetrahydro-1-oxo-1H,5H-pyrazolo[1,2-a][1,2]diazepin-3-yl ester (9CI) (CA INDEX NAME)

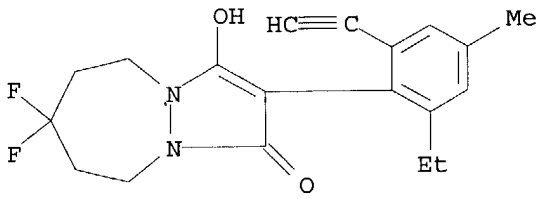


RN 329963-18-0 CAPLUS

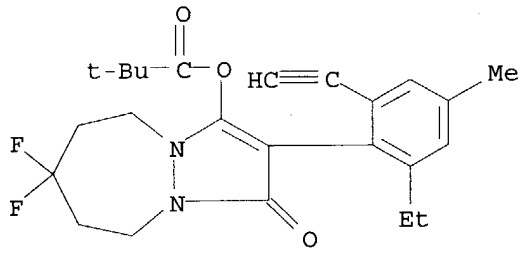
CN 1H,5H-Pyrazolo[1,2-a][1,2]diazepin-1-one, 2-(2,6-diethyl-4-methylphenyl)-6,7,8,9-tetrahydro-3-hydroxy-7-(phenylmethoxy)- (9CI) (CA INDEX NAME)



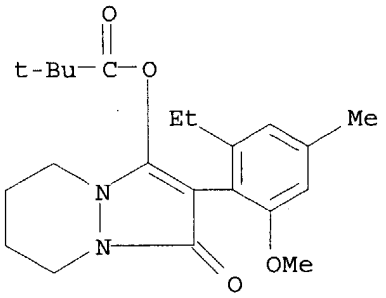
RN 329963-20-4 CAPLUS
CN 1H,5H-Pyrazolo[1,2-a][1,2]diazepin-1-one, 2-(2-ethyl-6-ethynyl-4-methylphenyl)-7,7-difluoro-6,7,8,9-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



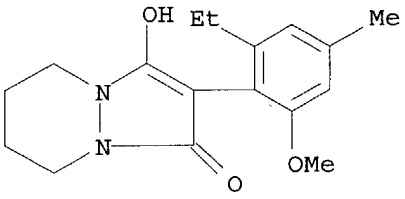
RN 329963-22-6 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 2-(2-ethyl-6-ethynyl-4-methylphenyl)-7,7-difluoro-6,7,8,9-tetrahydro-1-oxo-1H,5H-pyrazolo[1,2-a][1,2]diazepin-3-yl ester (9CI) (CA INDEX NAME)



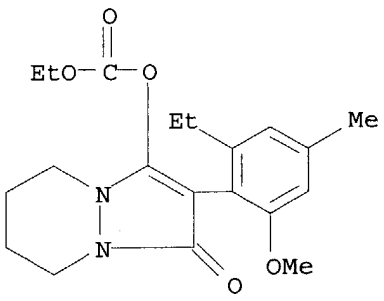
RN 329963-24-8 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 329963-26-0 CAPLUS
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)

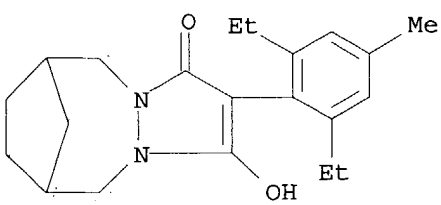


RN 329963-28-2 CAPLUS
CN Carbonic acid, ethyl 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



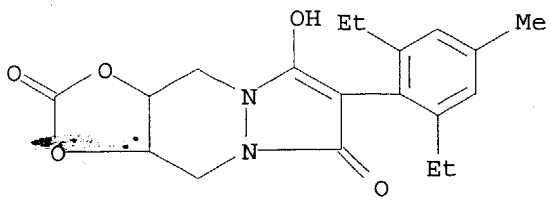
RN 329963-30-6 CAPLUS
CN 6,9-Methano-1H-pyrazolo[1,2-a][1,2]diazocin-1-one, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8,9,10-hexahydro-3-hydroxy- (9CI) (CA INDEX NAME)

540/556

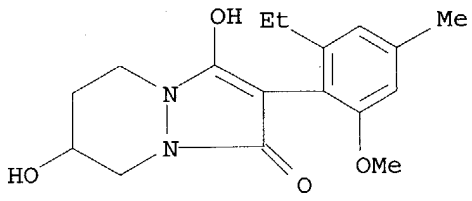


RN 329963-32-8 CAPLUS

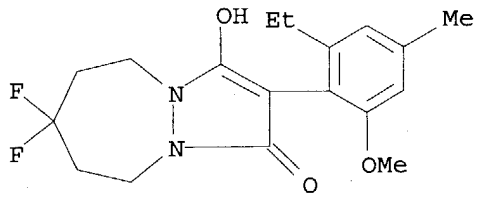
CN 6H-1,3-Dioxolo[4,5-d]pyrazolo[1,2-a]pyridazine-2,6-dione, 7-(2,6-diethyl-4-methylphenyl)-3a,4,10,10a-tetrahydro-8-hydroxy- (9CI) (CA INDEX NAME)



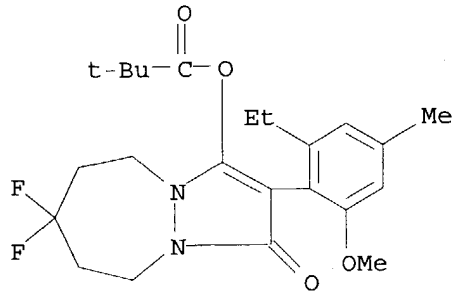
RN 329963-34-0 CAPLUS
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-3,7-dihydroxy- (9CI) (CA INDEX NAME)



RN 329963-36-2 CAPLUS
CN 1H,5H-Pyrazolo[1,2-a][1,2]diazepin-1-one, 2-(2-ethyl-6-methoxy-4-methylphenyl)-7,7-difluoro-6,7,8,9-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)

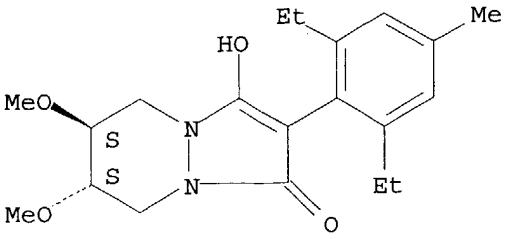


RN 329963-38-4 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-7,7-difluoro-6,7,8,9-tetrahydro-1-oxo-1H,5H-pyrazolo[1,2-a][1,2]diazepin-3-yl ester (9CI) (CA INDEX NAME)



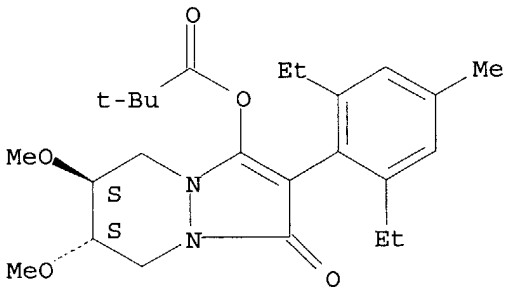
RN 329963-40-8 CAPLUS
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-3-hydroxy-6,7-dimethoxy-, (6R,7R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

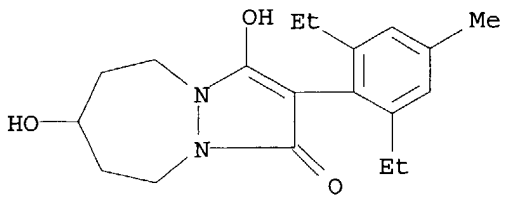


RN 329963-42-0 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, (6R,7R)-2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-6,7-dimethoxy-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester, rel- (9CI) (CA INDEX NAME)

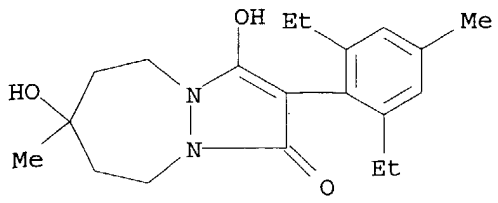
Relative stereochemistry.



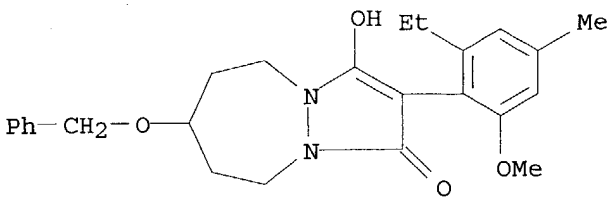
RN 329963-44-2 CAPLUS
CN 1H,5H-Pyrazolo[1,2-a][1,2]diazepin-1-one, 2-(2,6-diethyl-4-methylphenyl)-6,7,8,9-tetrahydro-3,7-dihydroxy- (9CI) (CA INDEX NAME)



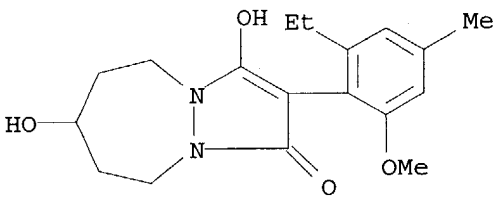
RN 329963-46-4 CAPLUS
CN 1H,5H-Pyrazolo[1,2-a][1,2]diazepin-1-one, 2-(2,6-diethyl-4-methylphenyl)-6,7,8,9-tetrahydro-3,7-dihydroxy-7-methyl- (9CI) (CA INDEX NAME)



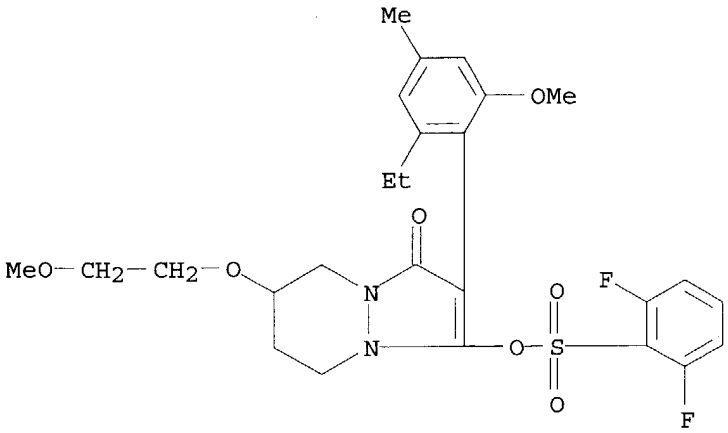
RN 329963-48-6 CAPLUS
CN 1H,5H-Pyrazolo[1,2-a][1,2]diazepin-1-one, 2-(2-ethyl-6-methoxy-4-methylphenyl)-6,7,8,9-tetrahydro-3-hydroxy-7-(phenylmethoxy)- (9CI) (CA INDEX NAME)



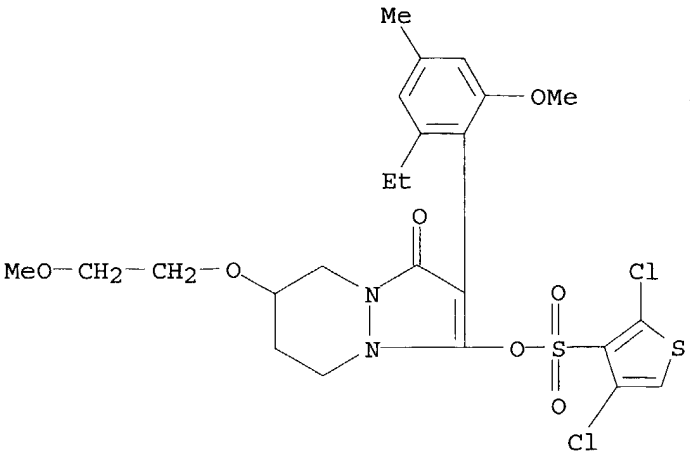
RN 329963-50-0 CAPLUS
CN 1H,5H-Pyrazolo[1,2-a][1,2]diazepin-1-one, 2-(2-ethyl-6-methoxy-4-methylphenyl)-6,7,8,9-tetrahydro-3,7-dihydroxy- (9CI) (CA INDEX NAME)



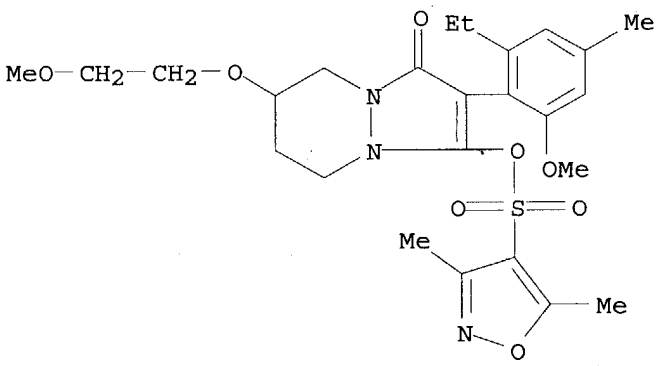
RN 329963-52-2 CAPLUS
CN Benzenesulfonic acid, 2,6-difluoro-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



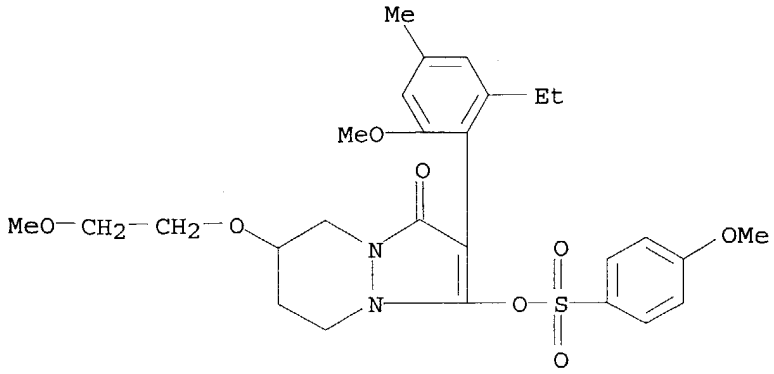
RN 329963-55-5 CAPLUS
CN 3-Thiophenesulfonic acid, 2,4-dichloro-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 329963-57-7 CAPLUS
CN 4-Isoxazolesulfonic acid, 3,5-dimethyl-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)

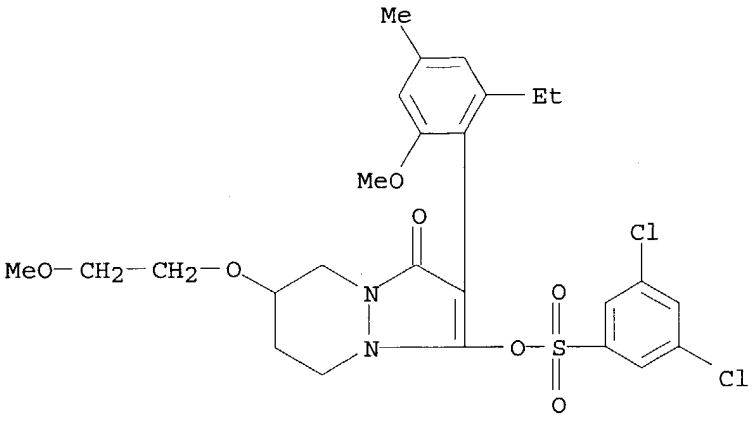


RN 329963-59-9 CAPLUS
CN Benzenesulfonic acid, 4-methoxy-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



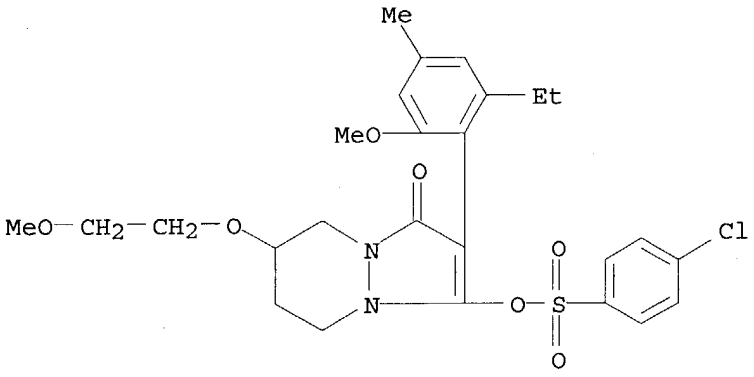
RN 329963-61-3 CAPLUS

CN Benzenesulfonic acid, 3,5-dichloro-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



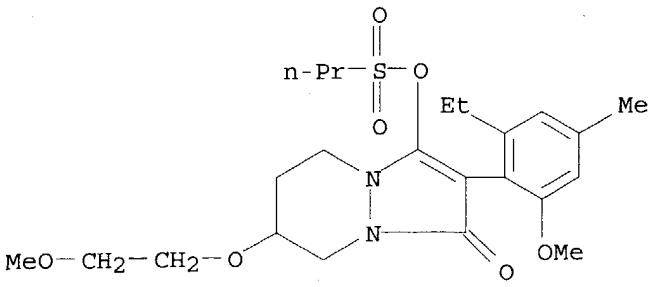
RN 329963-63-5 CAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



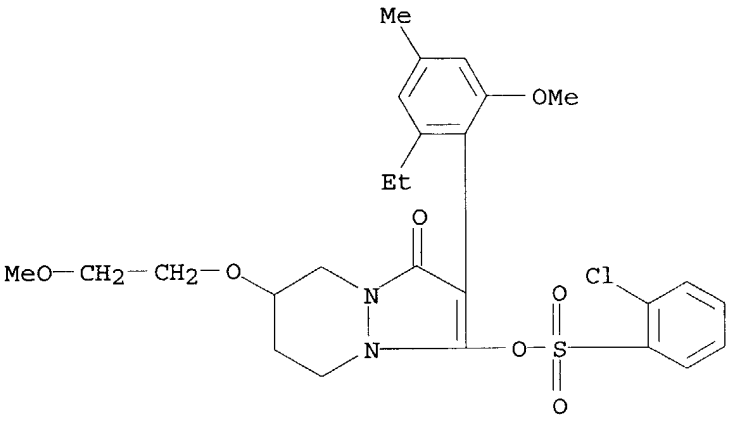
RN 329963-65-7 CAPLUS

CN 1-Propanesulfonic acid, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)

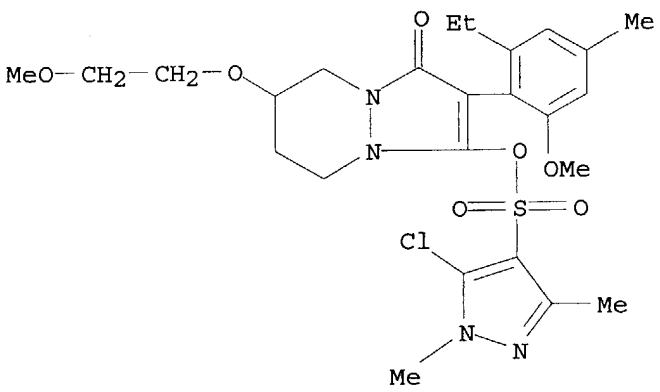


RN 329963-67-9 CAPLUS

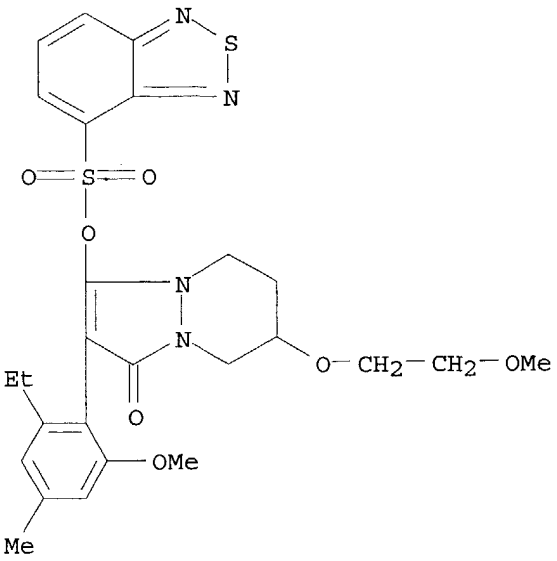
CN Benzenesulfonic acid, 2-chloro-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



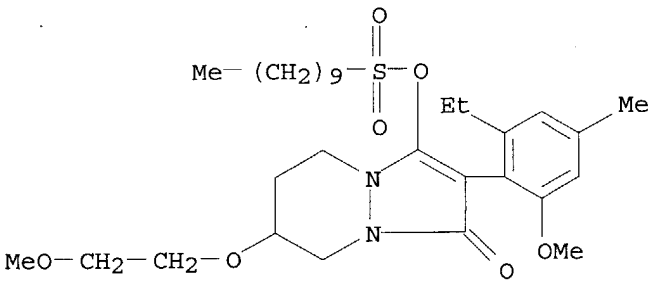
RN 329963-68-0 CAPLUS
CN 1H-Pyrazole-4-sulfonic acid, 5-chloro-1,3-dimethyl-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



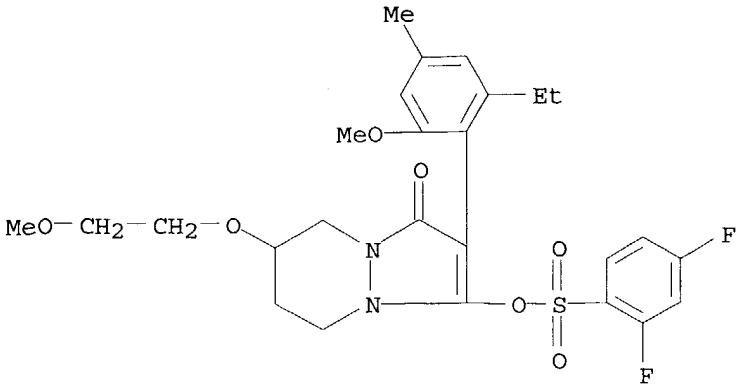
RN 329963-69-1 CAPLUS
CN 2,1,3-Benzothiadiazole-4-sulfonic acid, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



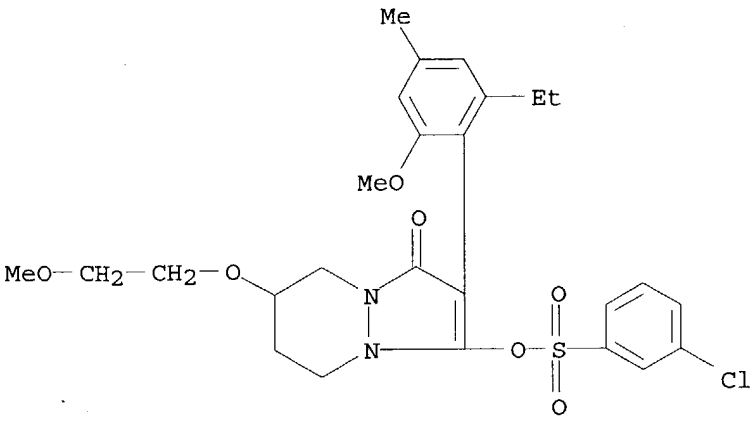
RN 329963-71-5 CAPLUS
CN 1-Decanesulfonic acid, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



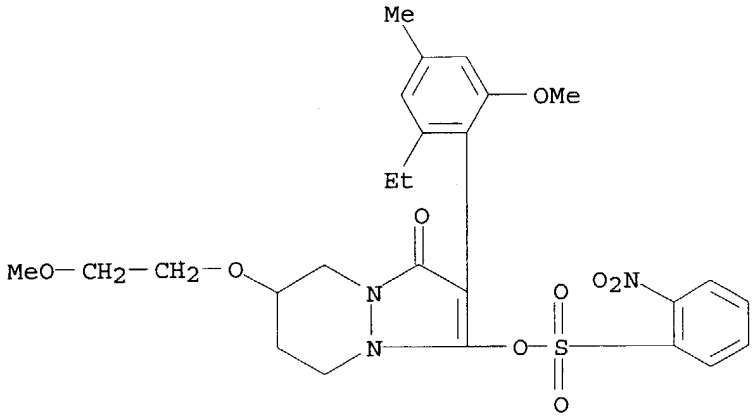
RN 329963-73-7 CAPLUS
CN Benzenesulfonic acid, 2,4-difluoro-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



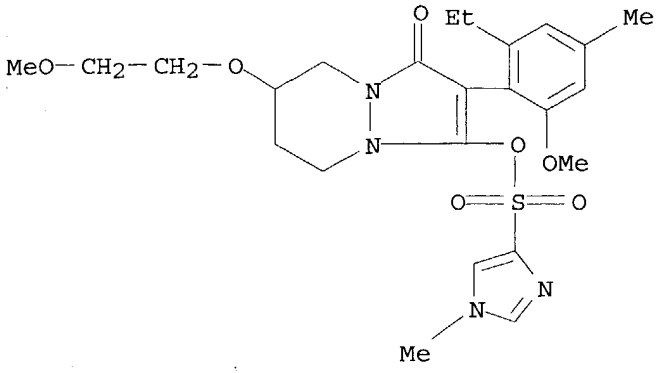
RN 329963-74-8 CAPLUS
CN Benzenesulfonic acid, 3-chloro-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



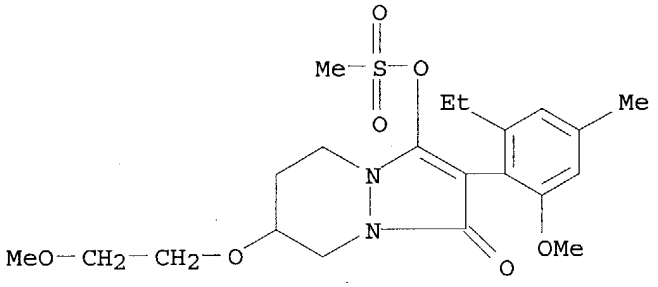
RN 329963-76-0 CAPLUS
CN Benzenesulfonic acid, 2-nitro-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



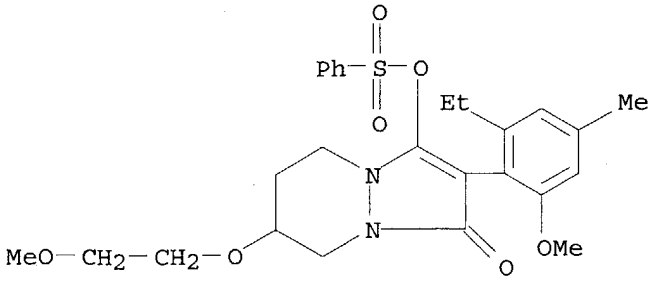
RN 329963-77-1 CAPLUS
CN 1H-Imidazole-4-sulfonic acid, 1-methyl-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



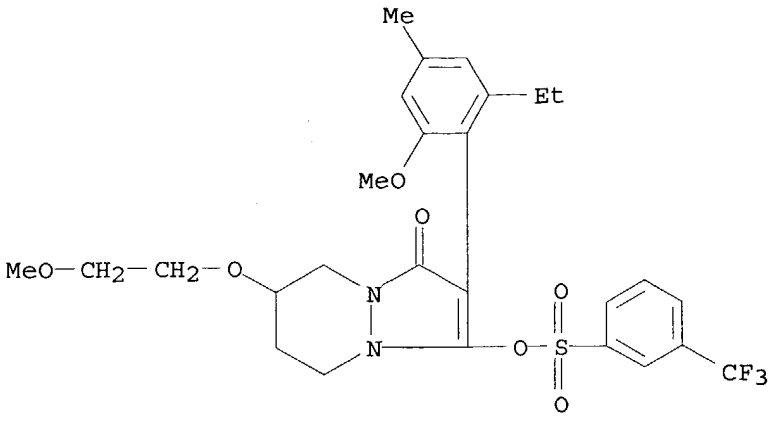
RN 329963-78-2 CAPLUS
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-3-[(methylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



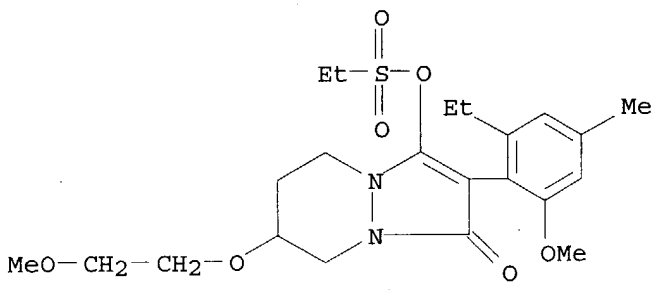
RN 329963-79-3 CAPLUS
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-3-[(phenylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



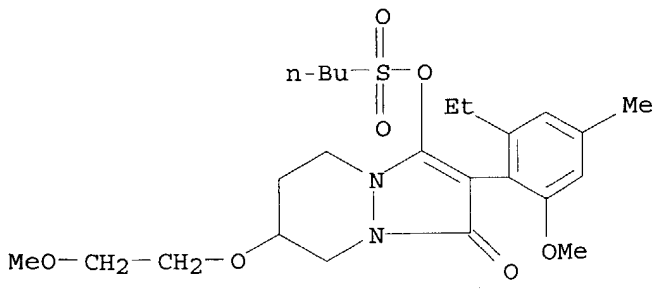
RN 329963-80-6 CAPLUS
CN Benzenesulfonic acid, 3-(trifluoromethyl)-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



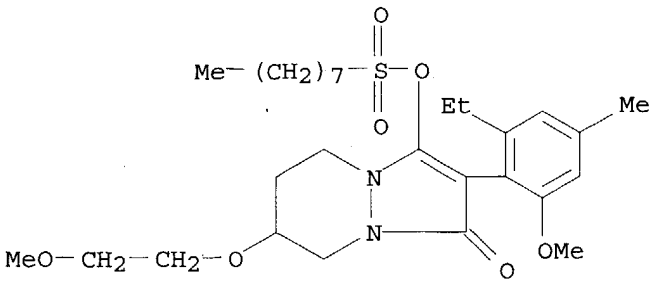
RN 329963-81-7 CAPLUS
CN Ethanesulfonic acid, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



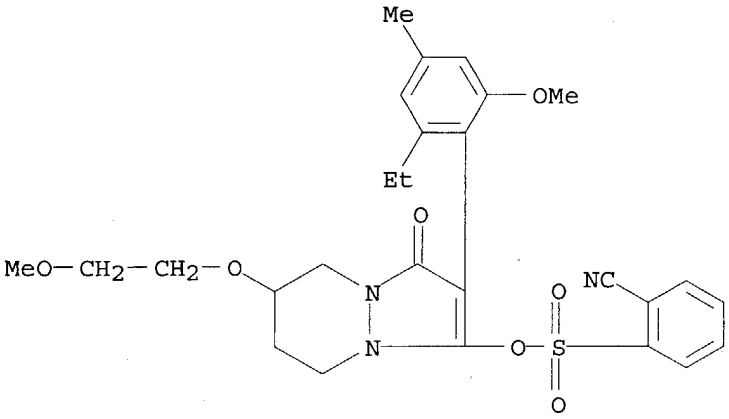
RN 329963-83-9 CAPLUS
CN 1-Butanesulfonic acid, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



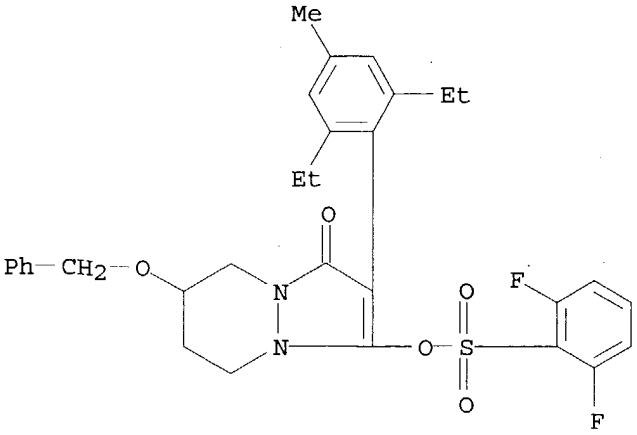
RN 329963-85-1 CAPLUS
CN 1-Octanesulfonic acid, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 329963-86-2 CAPLUS
CN Benzenesulfonic acid, 2-cyano-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)

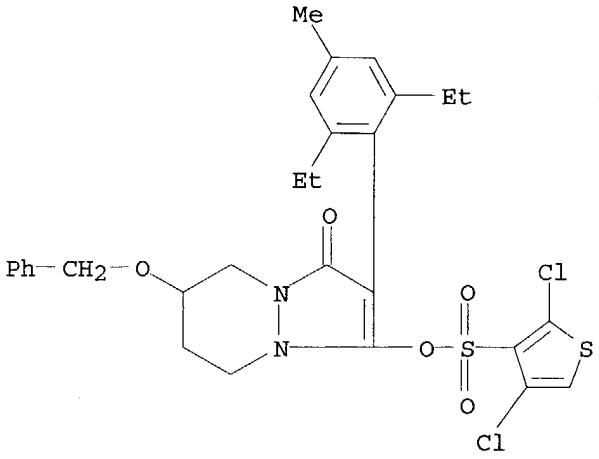


RN 329963-87-3 CAPLUS
CN Benzenesulfonic acid, 2,6-difluoro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)

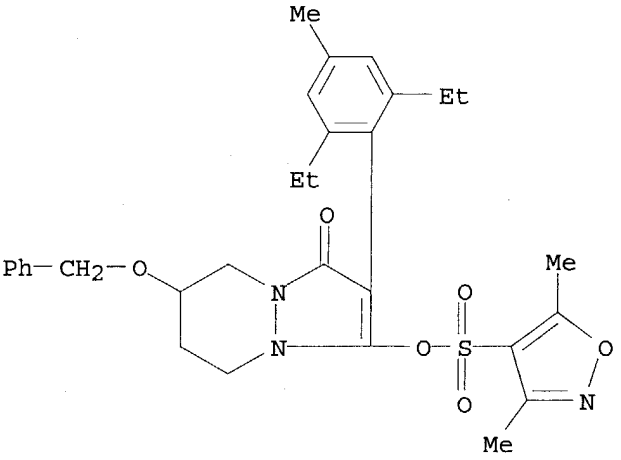


RN 329963-89-5 CAPLUS
CN 3-Thiophenesulfonic acid, 2,4-dichloro-, 2-(2,6-diethyl-4-methylphenyl)-

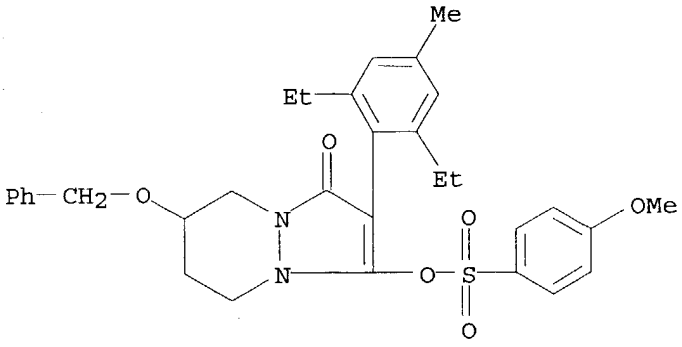
5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



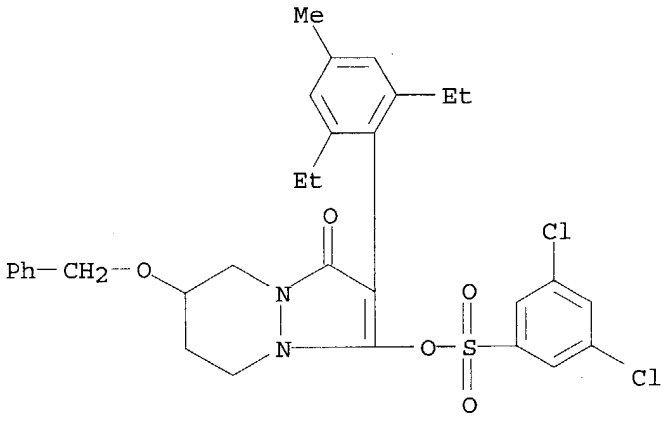
RN 329963-90-8 CAPLUS
CN 4-Isoxazolesulfonic acid, 3,5-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



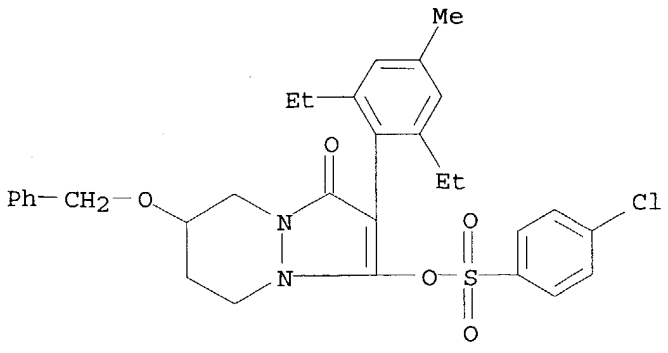
RN 329963-91-9 CAPLUS
CN Benzenesulfonic acid, 4-methoxy-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



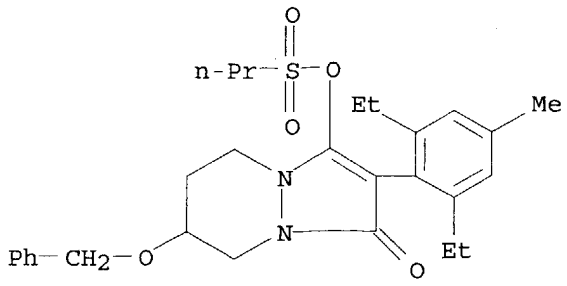
RN 329963-92-0 CAPLUS
CN Benzenesulfonic acid, 3,5-dichloro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



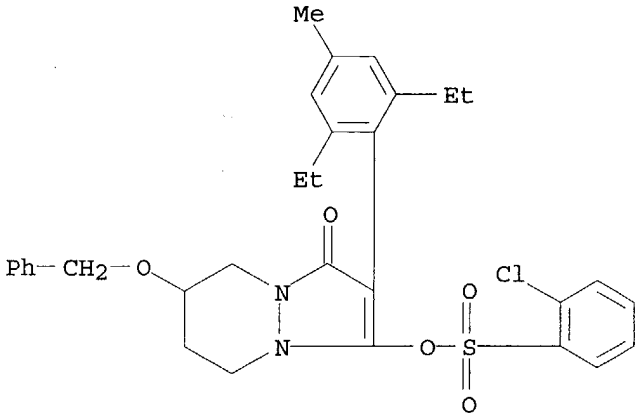
RN 329963-93-1 CAPLUS
CN Benzenesulfonic acid, 4-chloro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



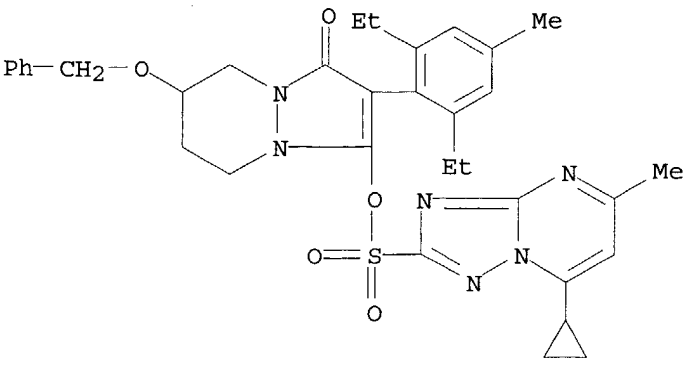
RN 329963-95-3 CAPLUS
CN 1-Propanesulfonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



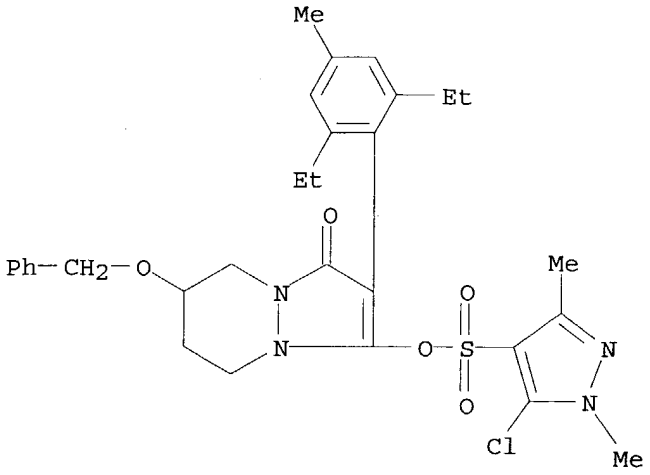
RN 329963-97-5 CAPLUS
CN Benzenesulfonic acid, 2-chloro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



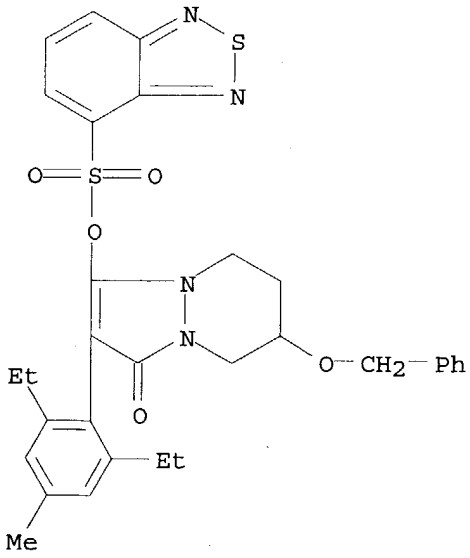
RN 329963-98-6 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidine-2-sulfonic acid, 7-cyclopropyl-5-methyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



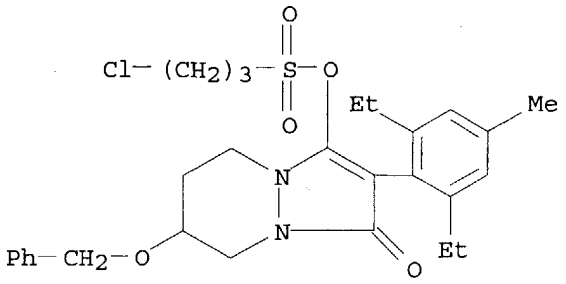
RN 329964-00-3 CAPLUS
CN 1H-Pyrazole-4-sulfonic acid, 5-chloro-1,3-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



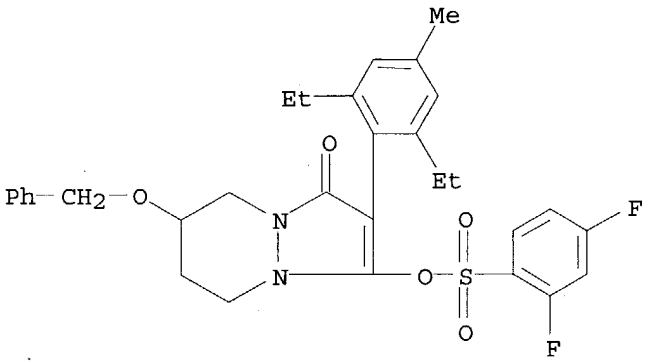
RN 329964-02-5 CAPLUS
CN 2,1,3-Benzothiadiazole-4-sulfonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



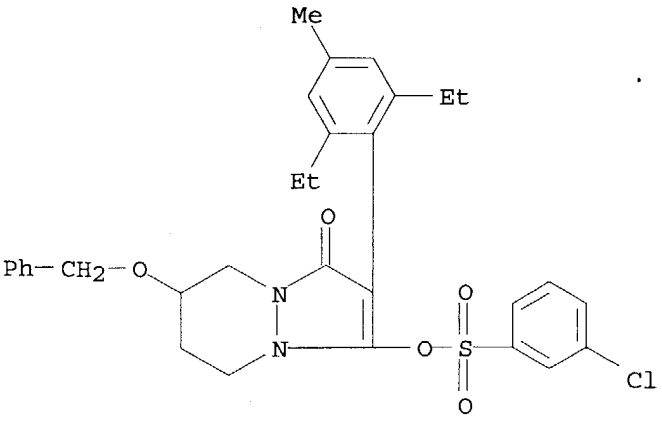
RN 329964-04-7 CAPLUS
CN 1-Propanesulfonic acid, 3-chloro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



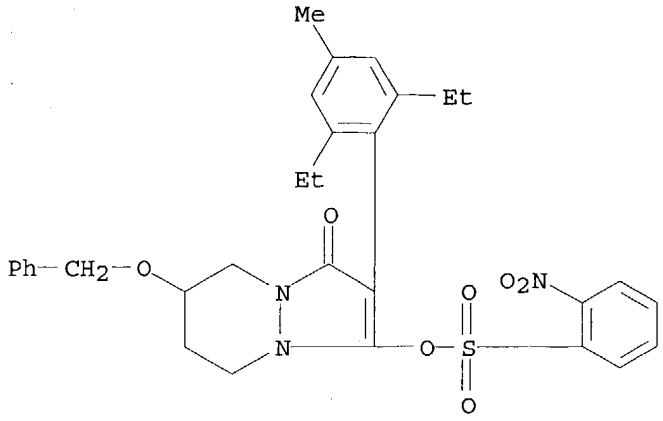
RN 329964-06-9 CAPLUS
CN Benzenesulfonic acid, 2,4-difluoro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



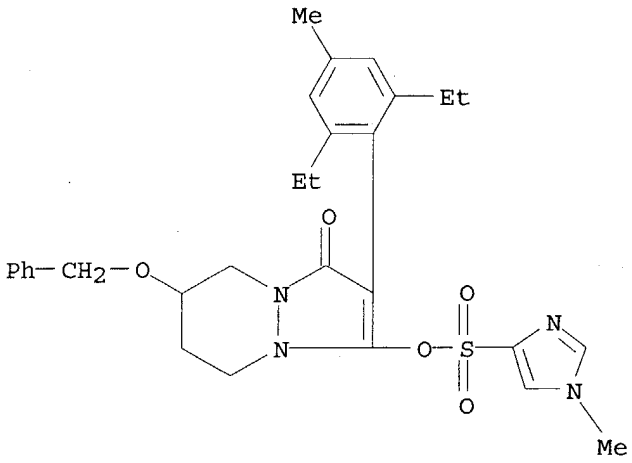
RN 329964-08-1 CAPLUS
CN Benzenesulfonic acid, 3-chloro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



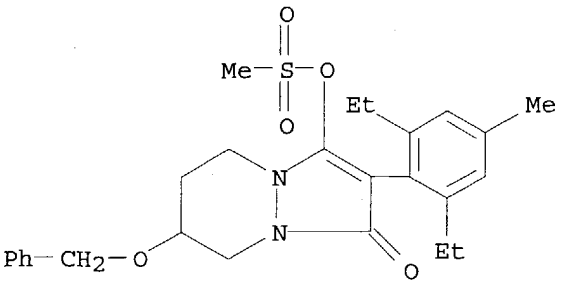
RN 329964-09-2 CAPLUS
CN Benzenesulfonic acid, 2-nitro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 329964-10-5 CAPLUS
CN 1H-Imidazole-4-sulfonic acid, 1-methyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)

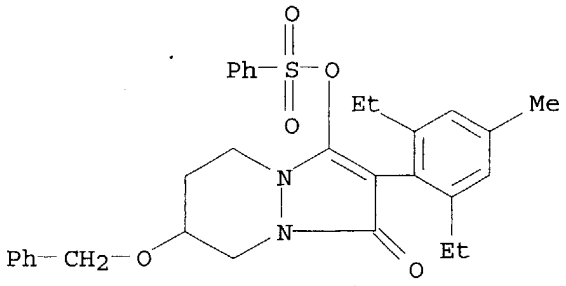


RN 329964-11-6 CAPLUS
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-3-[(methylsulfonyl)oxy]-7-(phenylmethoxy)- (9CI) (CA INDEX NAME)

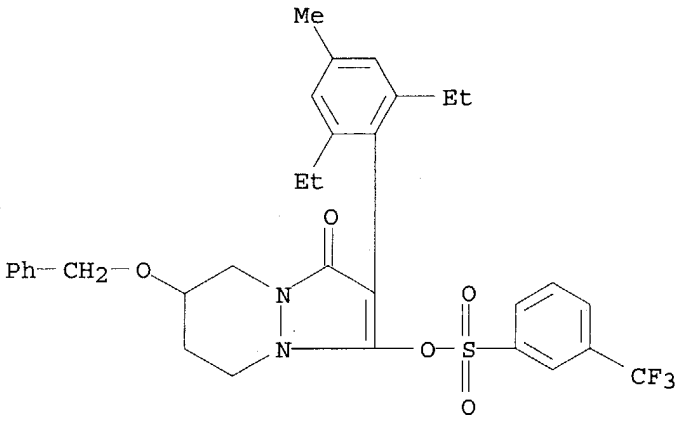


RN 329964-12-7 CAPLUS
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-

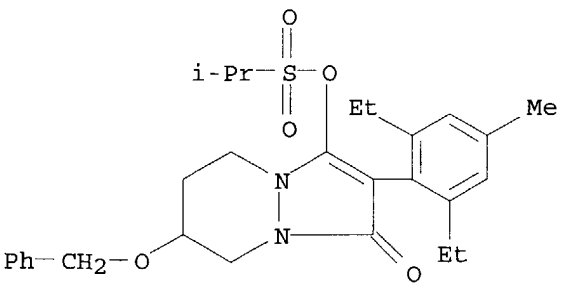
tetrahydro-7-(phenylmethoxy)-3-[(phenylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



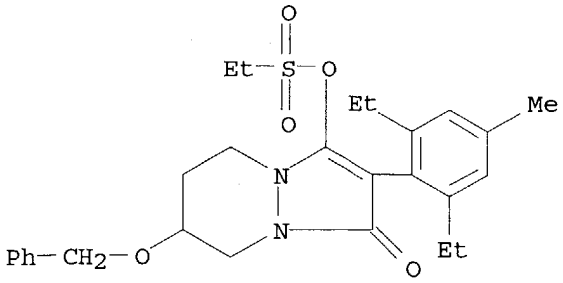
RN 329964-13-8 CAPLUS
CN Benzenesulfonic acid, 3-(trifluoromethyl)-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



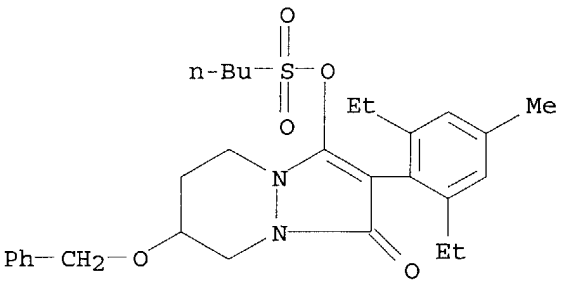
RN 329964-14-9 CAPLUS
CN 2-Propanesulfonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



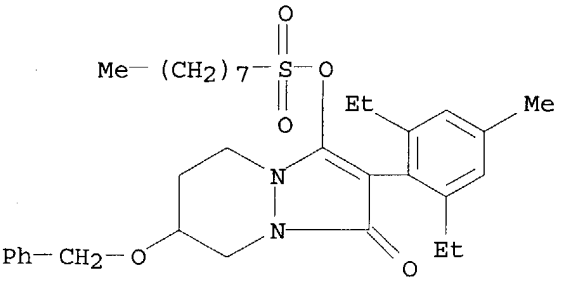
RN 329964-15-0 CAPLUS
CN Ethanesulfonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



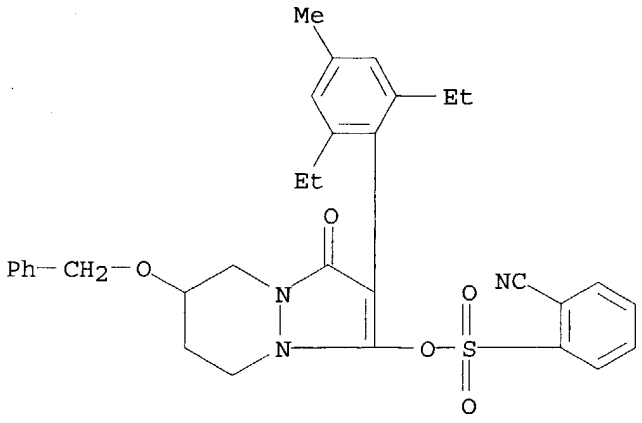
RN 329964-17-2 CAPLUS
CN 1-Butanesulfonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



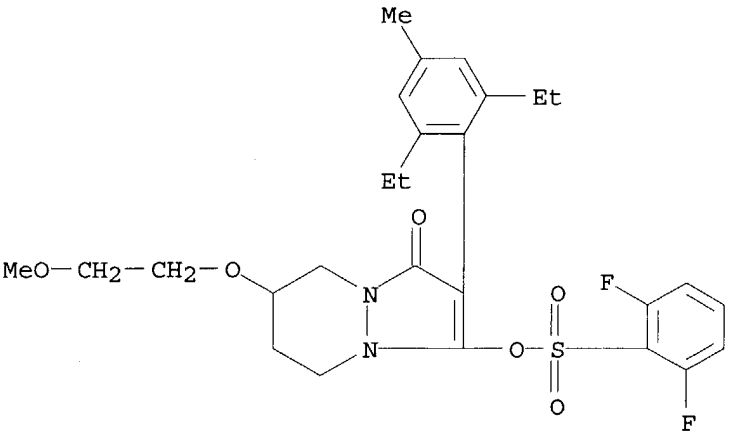
RN 329964-18-3 CAPLUS
CN 1-Octanesulfonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



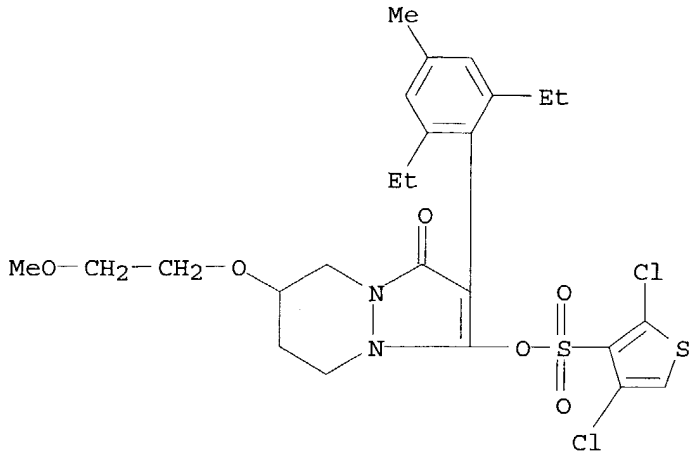
RN 329964-20-7 CAPLUS
CN Benzenesulfonic acid, 2-cyano-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



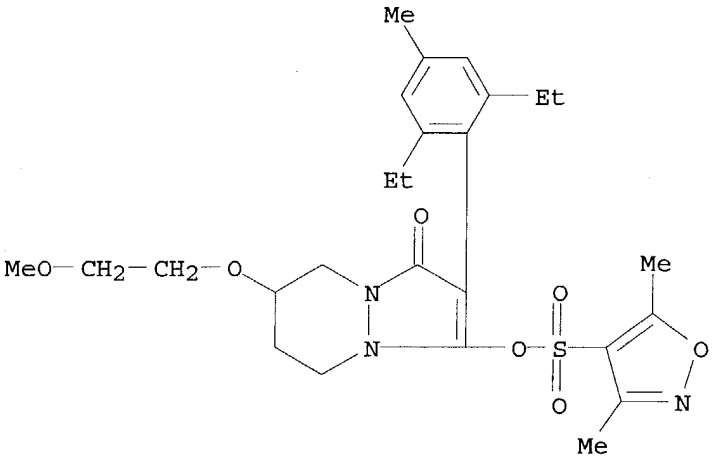
RN 329964-21-8 CAPLUS
CN Benzenesulfonic acid, 2,6-difluoro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



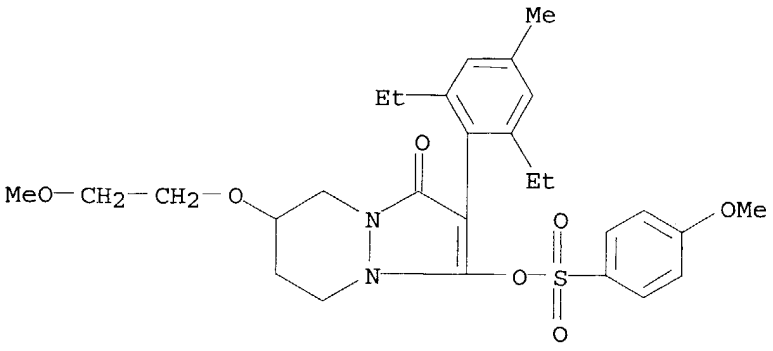
RN 329964-22-9 CAPLUS
CN 3-Thiophenesulfonic acid, 2,4-dichloro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



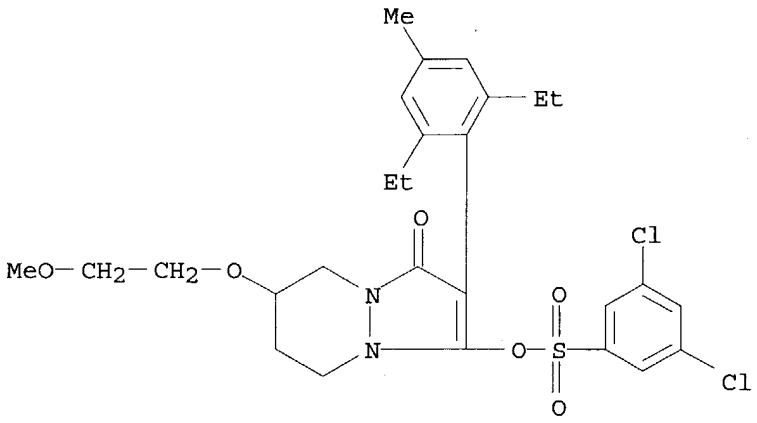
RN 329964-23-0 CAPLUS
CN 4-Isoxazolesulfonic acid, 3,5-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



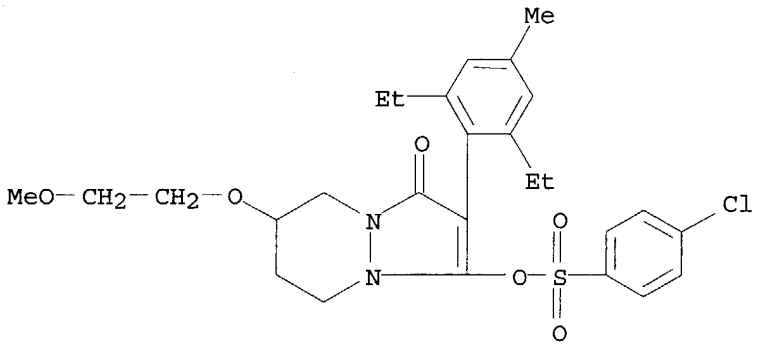
RN 329964-24-1 CAPLUS
CN Benzenesulfonic acid, 4-methoxy-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



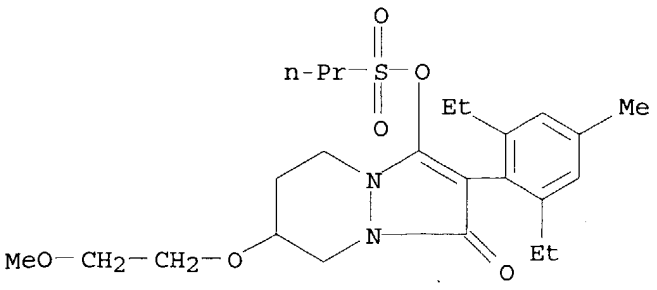
RN 329964-25-2 CAPLUS
CN Benzenesulfonic acid, 3,5-dichloro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



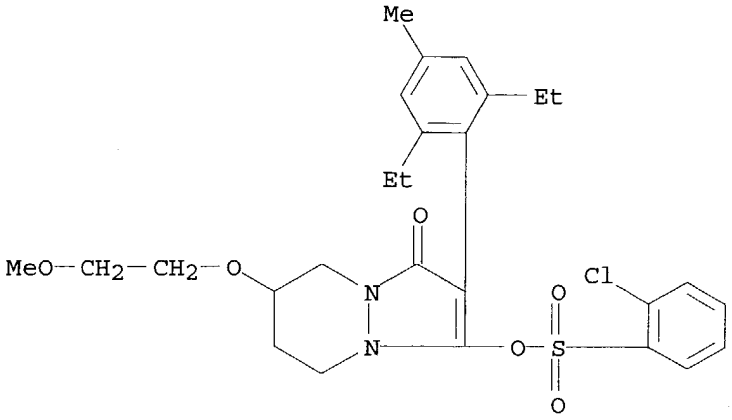
RN 329964-27-4 CAPLUS
CN Benzenesulfonic acid, 4-chloro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



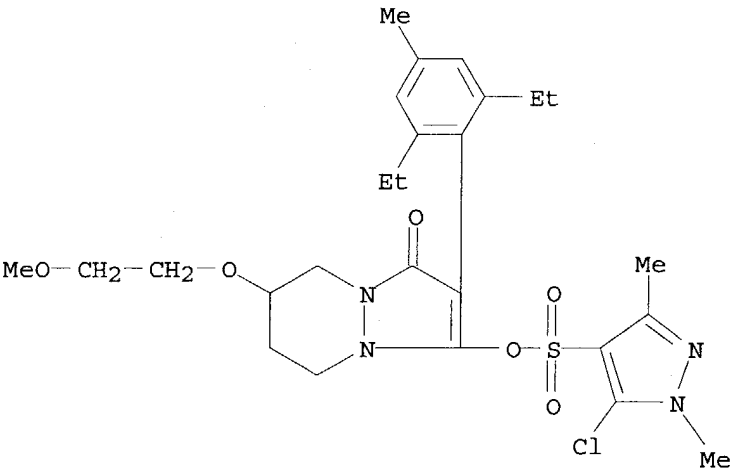
RN 329964-29-6 CAPLUS
CN 1-Propanesulfonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



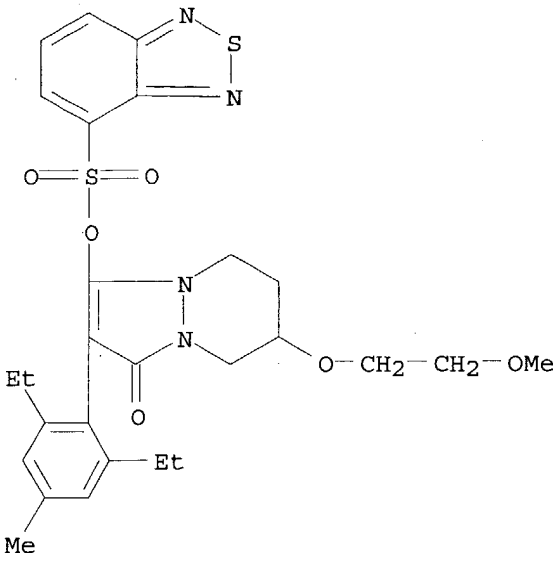
RN 329964-30-9 CAPLUS
CN Benzenesulfonic acid, 2-chloro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



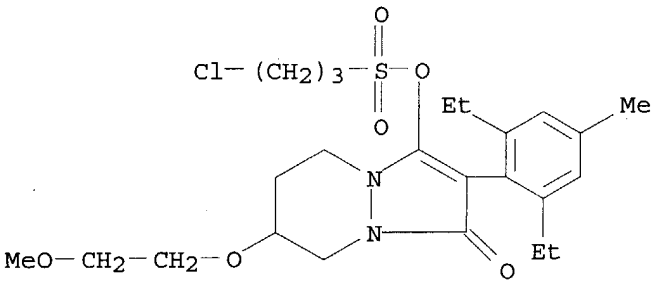
RN 329964-31-0 CAPLUS
CN 1H-Pyrazole-4-sulfonic acid, 5-chloro-1,3-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



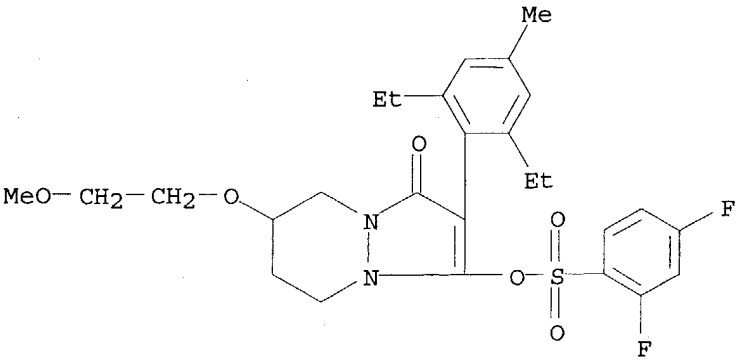
RN 329964-33-2 CAPLUS
CN 2,1,3-Benzothiadiazole-4-sulfonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



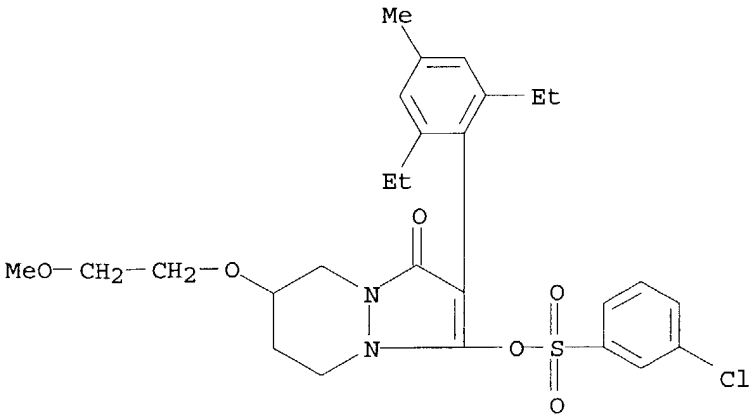
RN 329964-34-3 CAPLUS
CN 1-Propanesulfonic acid, 3-chloro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



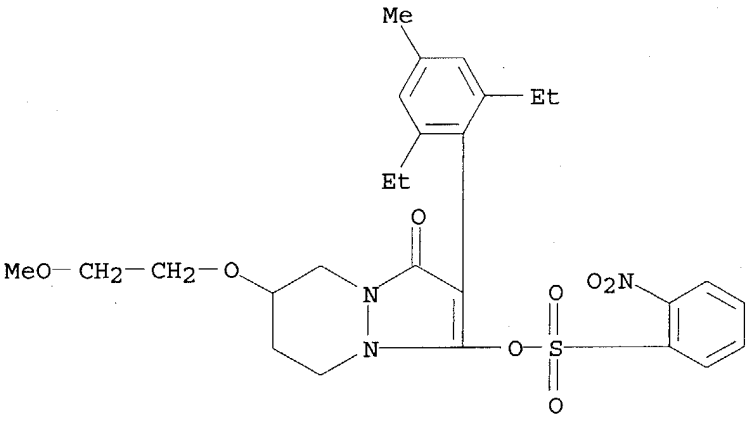
RN 329964-35-4 CAPLUS
CN Benzenesulfonic acid, 2,4-difluoro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



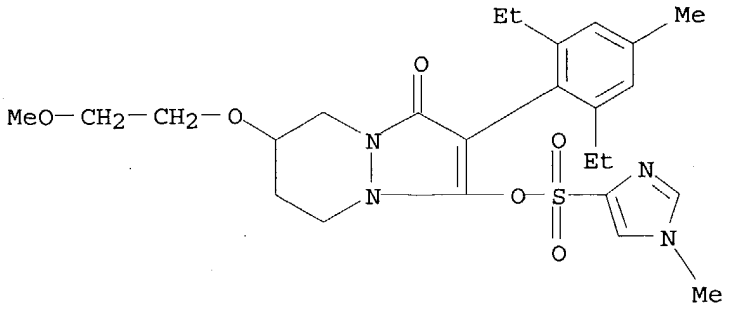
RN 329964-37-6 CAPLUS
CN Benzenesulfonic acid, 3-chloro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



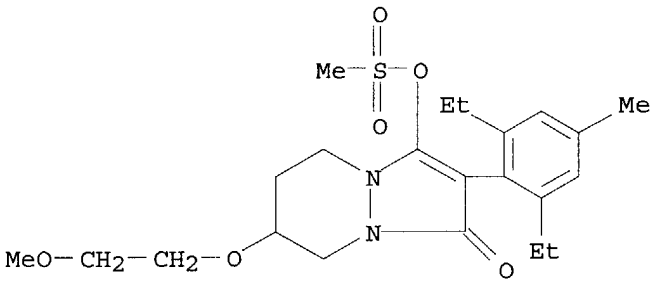
RN 329964-38-7 CAPLUS
CN Benzenesulfonic acid, 2-nitro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



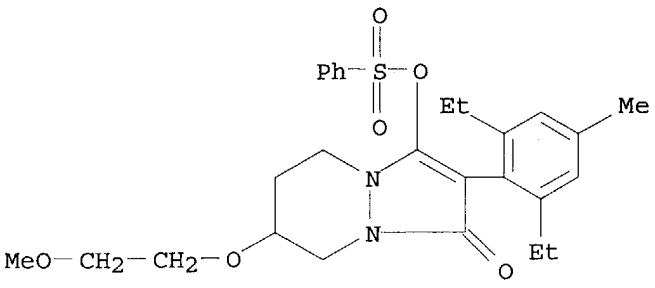
RN 329964-40-1 CAPLUS
CN 1H-Imidazole-4-sulfonic acid, 1-methyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



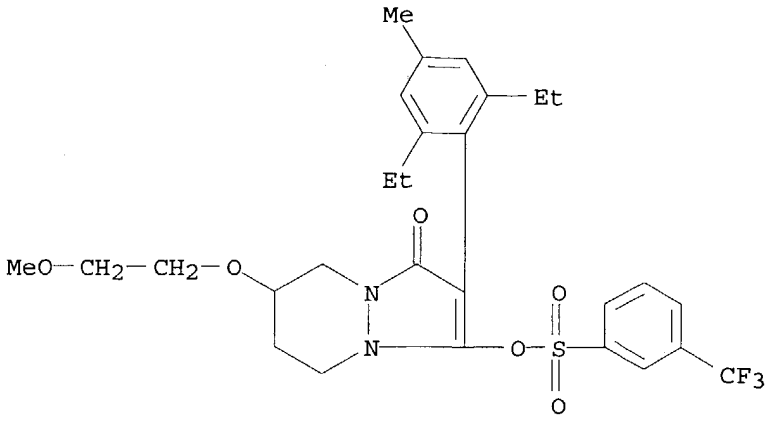
RN 329964-41-2 CAPLUS
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-3-[(methylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



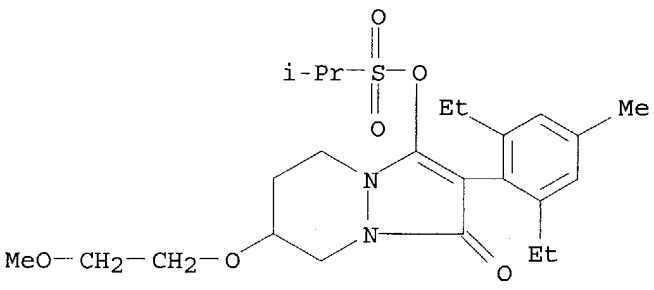
RN 329964-42-3 CAPLUS
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-3-[(phenylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



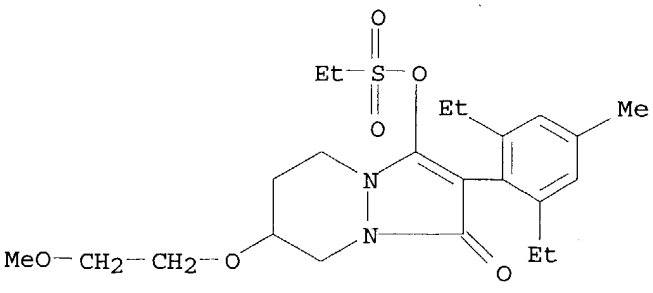
RN 329964-43-4 CAPLUS
CN Benzenesulfonic acid, 3-(trifluoromethyl)-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



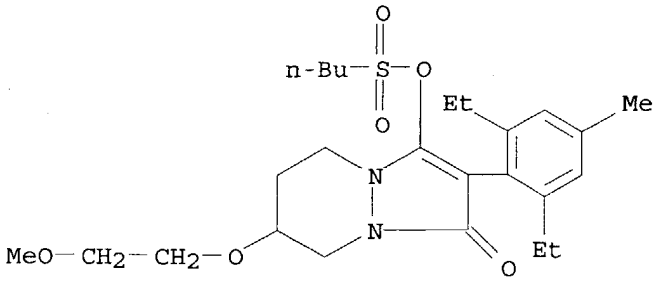
RN 329964-44-5 CAPLUS
CN 2-Propanesulfonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



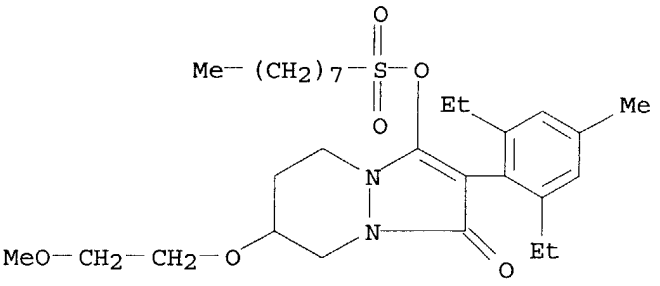
RN 329964-45-6 CAPLUS
CN Ethanesulfonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



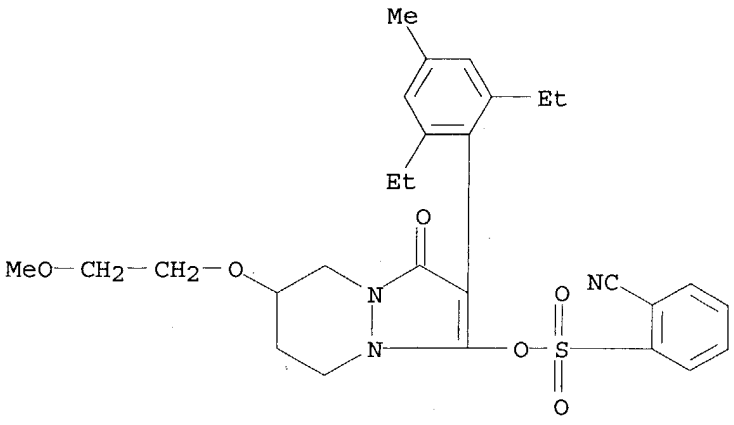
RN 329964-47-8 CAPLUS
CN 1-Butanesulfonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



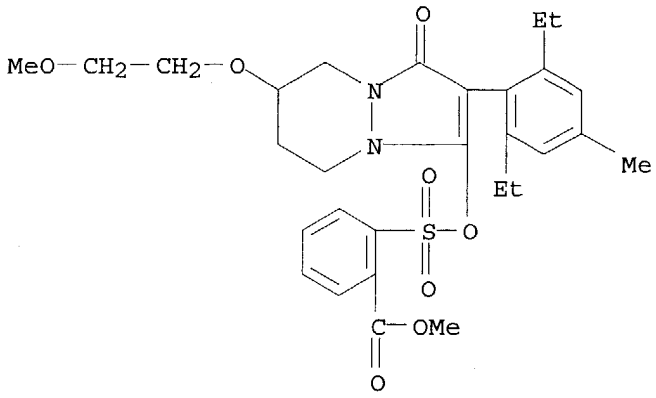
RN 329964-49-0 CAPLUS
CN 1-Octanesulfonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



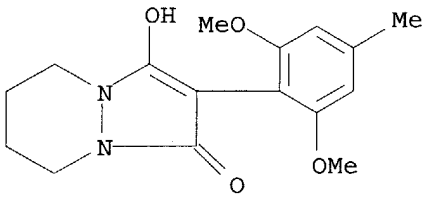
RN 329964-51-4 CAPLUS
CN Benzenesulfonic acid, 2-cyano-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



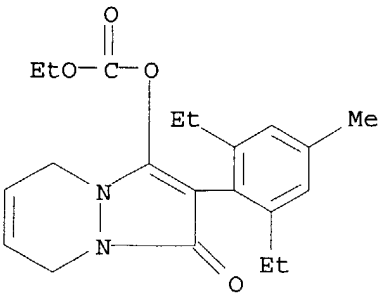
RN 329964-52-5 CAPLUS
CN Benzoic acid, 2-[[[2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl]oxy]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



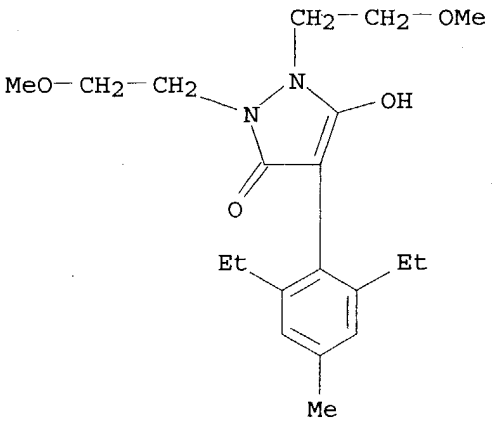
RN 329964-54-7 CAPLUS
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2,6-dimethoxy-4-methylphenyl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



RN 329964-56-9 CAPLUS
CN Carbonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,8-dihydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ethyl ester (9CI) (CA INDEX NAME)

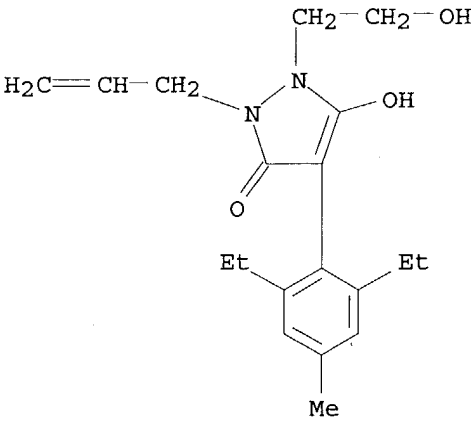


RN 329964-58-1 CAPLUS
CN 3H-Pyrazol-3-one, 4-(2,6-diethyl-4-methylphenyl)-1,2-dihydro-5-hydroxy-1,2-bis(2-methoxyethyl)- (9CI) (CA INDEX NAME)

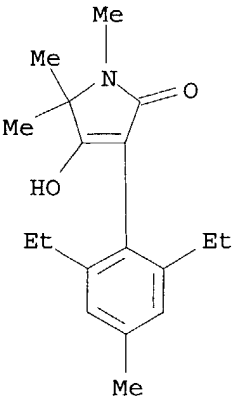


548/367.1
564/282

RN 329964-60-5 CAPLUS
CN 3H-Pyrazol-3-one, 4-(2,6-diethyl-4-methylphenyl)-1,2-dihydro-5-hydroxy-1-(2-hydroxyethyl)-2-(2-propenyl)- (9CI) (CA INDEX NAME)



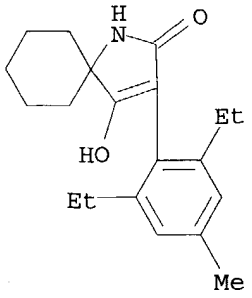
RN 329964-62-7 CAPLUS
CN 2H-Pyrrol-2-one, 3-(2,6-diethyl-4-methylphenyl)-1,5-dihydro-4-hydroxy-1,5,5-trimethyl- (9CI) (CA INDEX NAME)



548/543
564/283

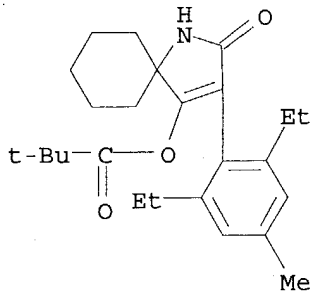
RN 329964-63-8 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,6-diethyl-4-methylphenyl)-4-hydroxy- (9CI) (CA INDEX NAME)

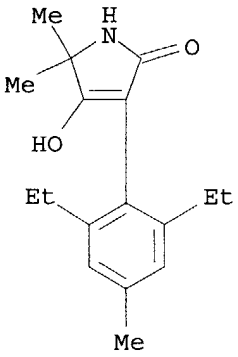


548/408
504/283

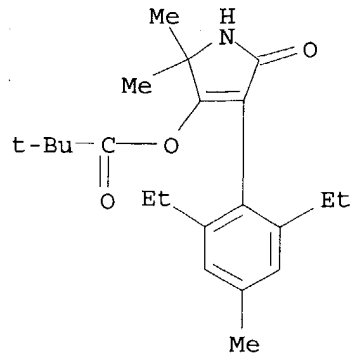
RN 329964-65-0 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 3-(2,6-diethyl-4-methylphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX NAME)



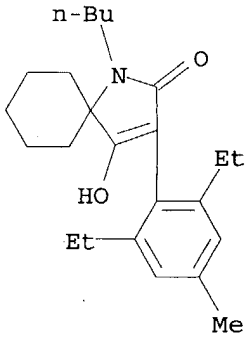
RN 329964-67-2 CAPLUS
CN 2H-Pyrrol-2-one, 3-(2,6-diethyl-4-methylphenyl)-1,5-dihydro-4-hydroxy-5,5-dimethyl- (9CI) (CA INDEX NAME)



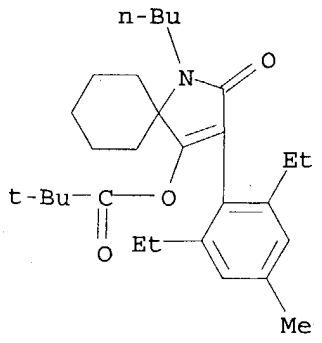
RN 329964-68-3 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 4-(2,6-diethyl-4-methylphenyl)-2,5-dihydro-2,2-dimethyl-5-oxo-1H-pyrrol-3-yl ester (9CI) (CA INDEX NAME)



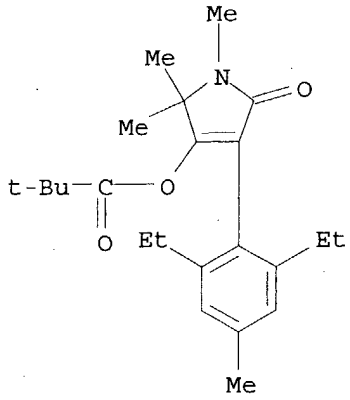
RN 329964-69-4 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 1-butyl-3-(2,6-diethyl-4-methylphenyl)-4-hydroxy- (9CI) (CA INDEX NAME)



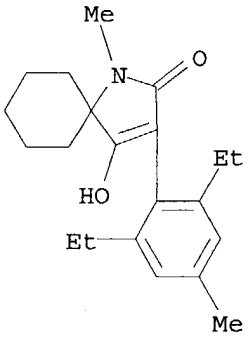
RN 329964-70-7 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 1-butyl-3-(2,6-diethyl-4-methylphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX NAME)



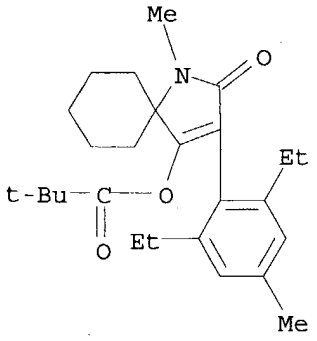
RN 329964-72-9 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 4-(2,6-diethyl-4-methylphenyl)-2,5-dihydro-1,2,2-trimethyl-5-oxo-1H-pyrrol-3-yl ester (9CI) (CA INDEX NAME)



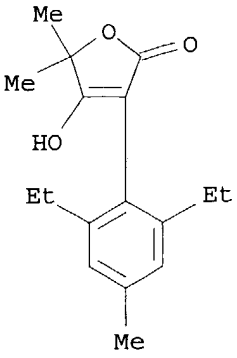
RN 329964-73-0 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,6-diethyl-4-methylphenyl)-4-hydroxy-1-methyl- (9CI) (CA INDEX NAME)



RN 329964-74-1 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 3-(2,6-diethyl-4-methylphenyl)-1-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX NAME)

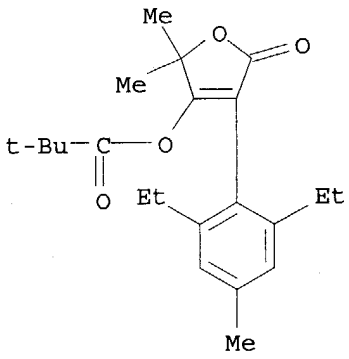


RN 329964-75-2 CAPLUS
CN 2(5H)-Furanone, 3-(2,6-diethyl-4-methylphenyl)-4-hydroxy-5,5-dimethyl- (9CI) (CA INDEX NAME)

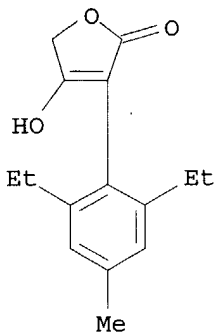


549/427 504/299

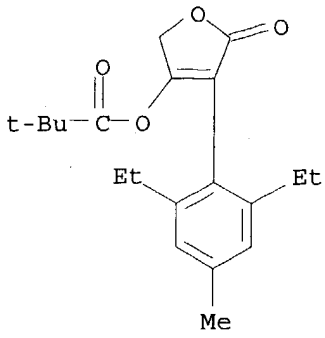
RN 329964-77-4 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 4-(2,6-diethyl-4-methylphenyl)-2,5-dihydro-2,2-dimethyl-5-oxo-3-furanyl ester (9CI) (CA INDEX NAME)



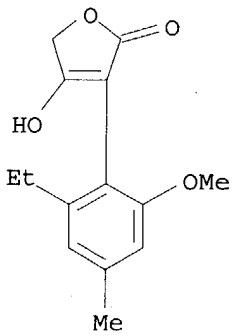
RN 329964-78-5 CAPLUS
CN 2(5H)-Furanone, 3-(2,6-diethyl-4-methylphenyl)-4-hydroxy- (9CI) (CA INDEX NAME)



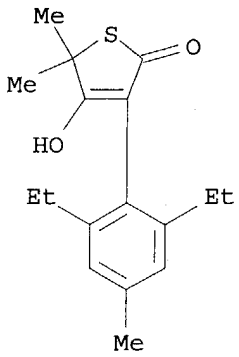
RN 329964-80-9 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 4-(2,6-diethyl-4-methylphenyl)-2,5-dihydro-5-oxo-3-furanyl ester (9CI) (CA INDEX NAME)



RN 329964-82-1 CAPLUS
CN 2(5H)-Furanone, 3-(2-ethyl-6-methoxy-4-methylphenyl)-4-hydroxy- (9CI) (CA INDEX NAME)

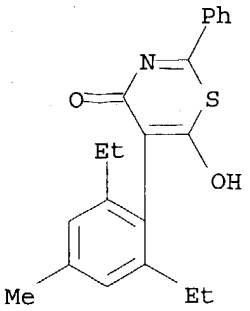


RN 329964-83-2 CAPLUS
CN 2(5H)-Thiophenone, 3-(2,6-diethyl-4-methylphenyl)-4-hydroxy-5,5-dimethyl- (9CI) (CA INDEX NAME)



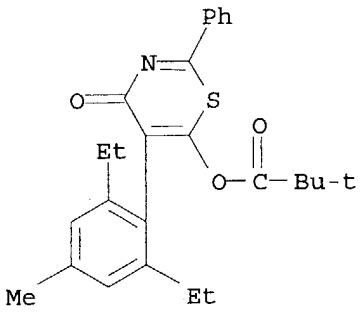
549/62
504/289

RN 329964-85-4 CAPLUS
CN 4H-1,3-Thiazin-4-one, 5-(2,6-diethyl-4-methylphenyl)-6-hydroxy-2-phenyl- (9CI) (CA INDEX NAME)

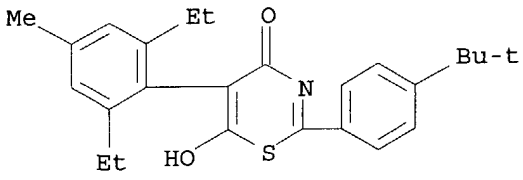


544/54
504/221

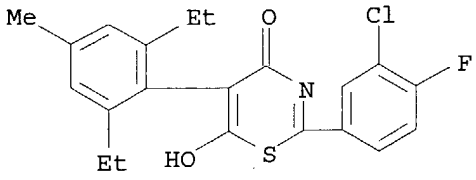
RN 329964-86-5 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 5-(2,6-diethyl-4-methylphenyl)-4-oxo-2-phenyl-4H-1,3-thiazin-6-yl ester (9CI) (CA INDEX NAME)



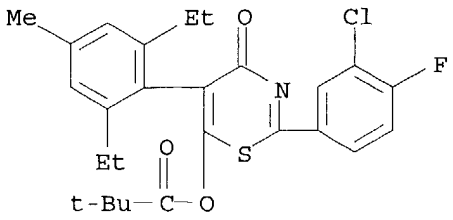
RN 329964-87-6 CAPLUS
CN 4H-1,3-Thiazin-4-one, 5-(2,6-diethyl-4-methylphenyl)-2-[4-(1,1-dimethylethyl)phenyl]-6-hydroxy- (9CI) (CA INDEX NAME)



RN 329964-88-7 CAPLUS
CN 4H-1,3-Thiazin-4-one, 2-(3-chloro-4-fluorophenyl)-5-(2,6-diethyl-4-methylphenyl)-6-hydroxy- (9CI) (CA INDEX NAME)



RN 329964-90-1 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 2-(3-chloro-4-fluorophenyl)-5-(2,6-diethyl-4-methylphenyl)-4-oxo-4H-1,3-thiazin-6-yl ester (9CI) (CA INDEX NAME)

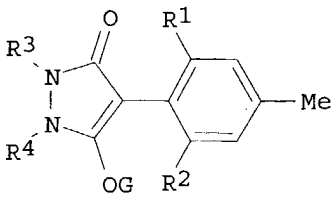


L11 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:185499 CAPLUS
DOCUMENT NUMBER: 134:203787
TITLE: Preparation of pyrazole derivative herbicides for use with safeners
INVENTOR(S): Glock, Jutta; Friedmann, Adrian Alberto; Cornes, Derek
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.
SOURCE: PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001017352	A1	20010315	WO 2000-EP8659	20000905
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1209973	A1	20020605	EP 2000-962443	20000905
EP 1209973	B1	20040225		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
AU 762436	B2	20030626	AU 2000-74172	20000905
AT 260035	E	20040315	AT 2000-962443	20000905
US 6555499	B1	20030429	US 2002-69829	20020226

PRIORITY APPLN. INFO.: CH 1999-1640 A 19990907
WO 2000-EP8659 W 20000905

OTHER SOURCE(S): MARPAT 134:203787
ED Entered STN: 16 Mar 2001
GI



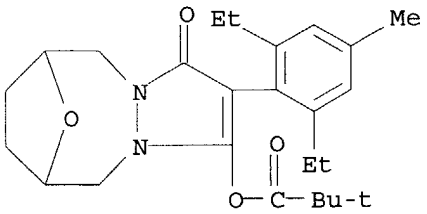
I

AB The pyrazole herbicides I (R1, R2 = halo, nitro, cyano, alkyl, alkenyl, etc.; R3R4 = alkyleneoxaalkylene; G = H, COCMe3, CO2Et, etc.) are prepd. for use with safeners, selected from cloquintocet, an alkali, alk. earth, sulfonium or ammonium salt of cloquintocet, cloquintocet-mexyl, mefenpyr, an alkali, alk. earth, sulfonium or ammonium salt of a mefenpyr and mefenpyr-diethyl, and formulated with an additive contg. a vegetable or animal oil or a mineral oil, an alkyl ester of the oil, or mixts. of the oils and oil derivs.

IT **243973-68-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate in prepn. of pyrazole deriv. herbicide for use with safeners)

RN 243973-68-4 CAPLUS

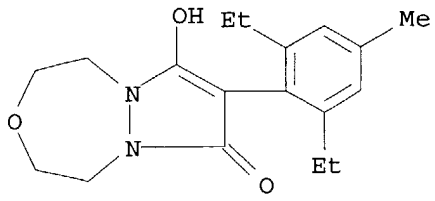
CN Propanoic acid, 2,2-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8,9,10-hexahydro-1-oxo-6,9-epoxy-1H-pyrazolo[1,2-a][1,2]diazocin-3-yl ester (9CI) (CA INDEX NAME)



IT **243973-19-5P 243973-26-4P 243973-27-5P**
243973-28-6P 328932-73-6P 328932-74-7P
328932-75-8P 328932-76-9P 328932-77-0P
328932-78-1P 328932-79-2P 328932-80-5P
328932-81-6P 328932-82-7P 328932-83-8P
328932-84-9P 328932-85-0P 328932-91-8P
328932-92-9P 328932-93-0P
RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. as herbicide for use with safeners)

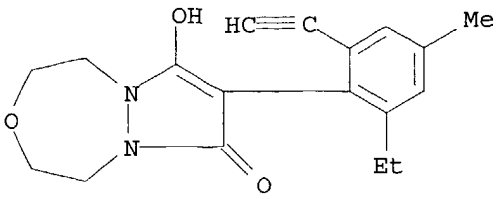
RN 243973-19-5 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)

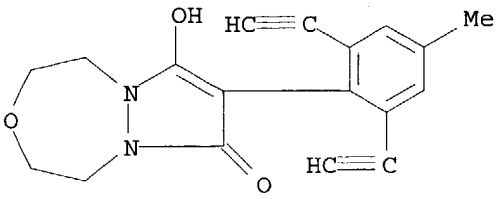


RN 243973-26-4 CAPLUS

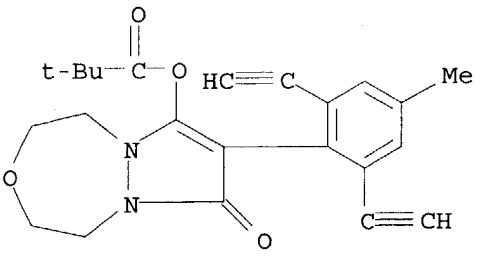
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-6-ethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



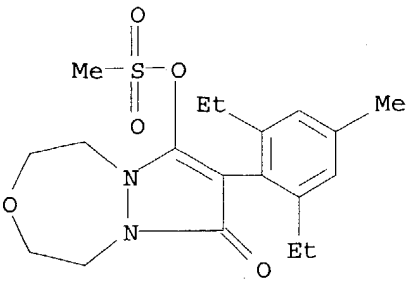
RN 243973-27-5 CAPLUS
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



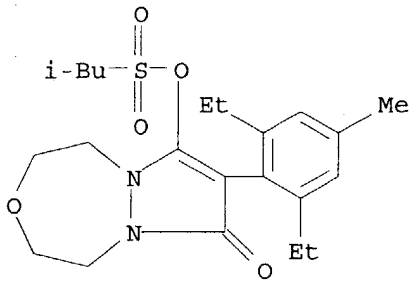
RN 243973-28-6 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



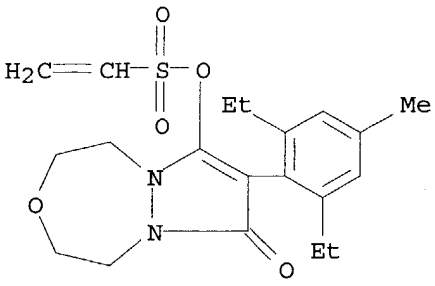
RN 328932-73-6 CAPLUS
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-[(methylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



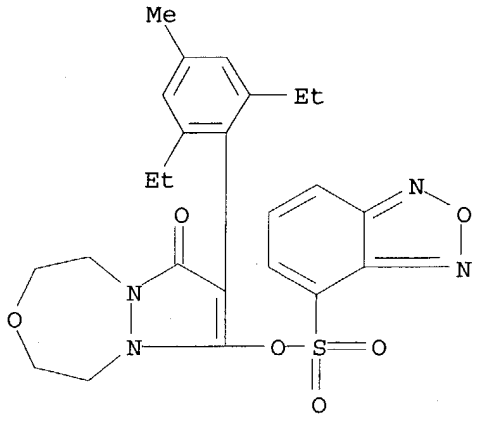
RN 328932-74-7 CAPLUS
CN 1-Propanesulfonic acid, 2-methyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



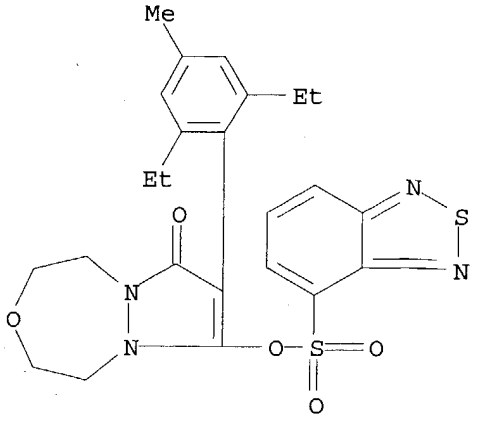
RN 328932-75-8 CAPLUS
CN Ethenesulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



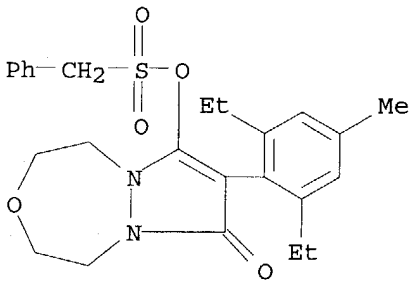
RN 328932-76-9 CAPLUS
CN 2,1,3-Benzoxadiazole-4-sulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



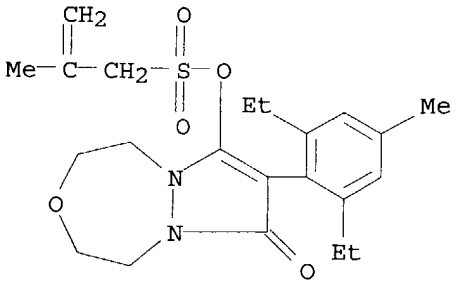
RN 328932-77-0 CAPLUS
CN 2,1,3-Benzothiadiazole-4-sulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



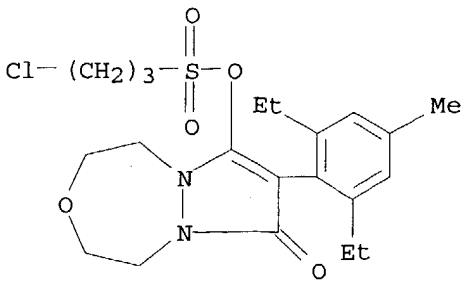
RN 328932-78-1 CAPLUS
CN Benzenemethanesulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



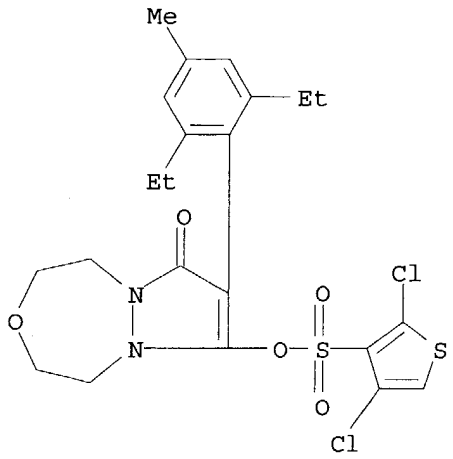
RN 328932-79-2 CAPLUS
CN 2-Propene-1-sulfonic acid, 2-methyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



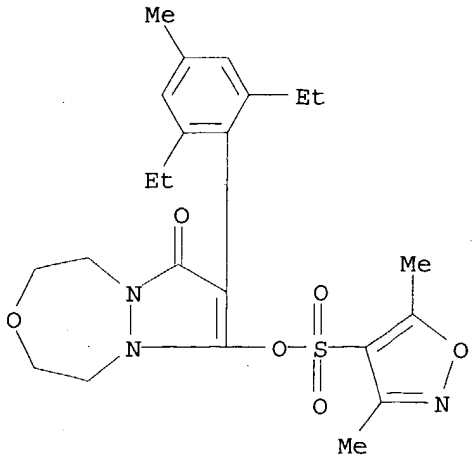
RN 328932-80-5 CAPLUS
CN 1-Propanesulfonic acid, 3-chloro-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 328932-81-6 CAPLUS
CN 3-Thiophenesulfonic acid, 2,4-dichloro-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)

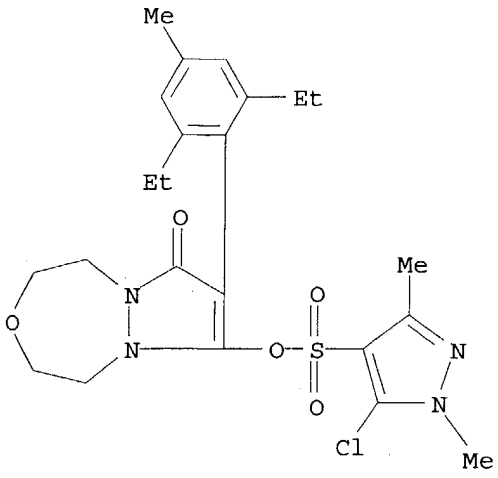


RN 328932-82-7 CAPLUS
CN 4-Isoxazolesulfonic acid, 3,5-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)

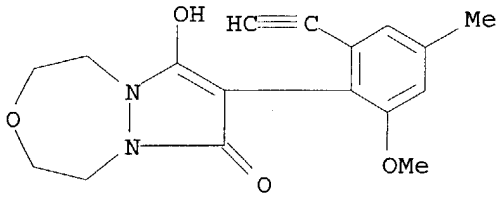


RN 328932-83-8 CAPLUS

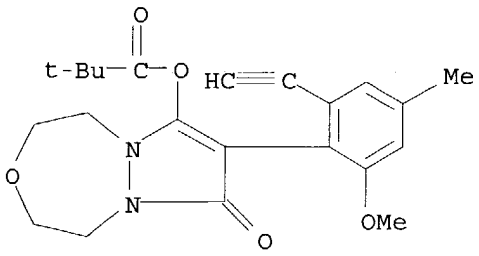
CN 1H-Pyrazole-4-sulfonic acid, 5-chloro-1,3-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



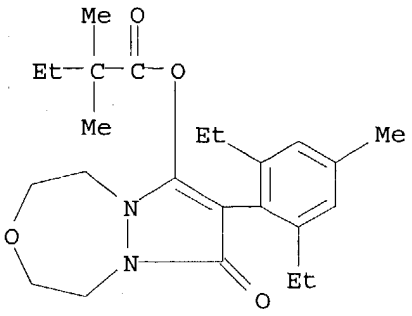
RN 328932-84-9 CAPLUS
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethynyl-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



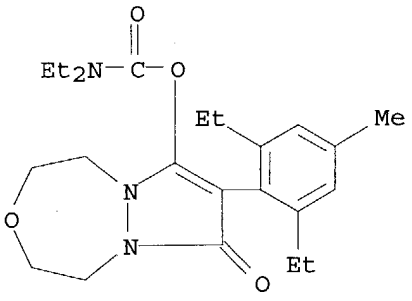
RN 328932-85-0 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethynyl-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



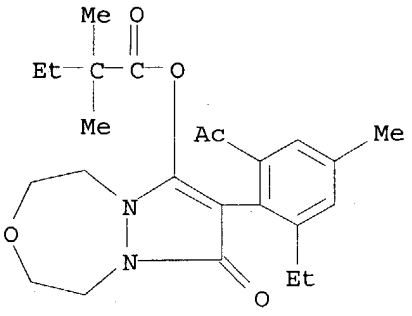
RN 328932-91-8 CAPLUS
CN Butanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



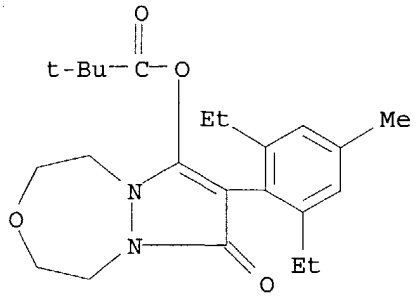
RN 328932-92-9 CAPLUS
CN Carbamic acid, diethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 328932-93-0 CAPLUS
CN Butanoic acid, 2,2-dimethyl-, 8-(2-acetyl-6-ethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



IT **243973-20-8P**
RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. as herbicides for use with safeners)
RN 243973-20-8 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



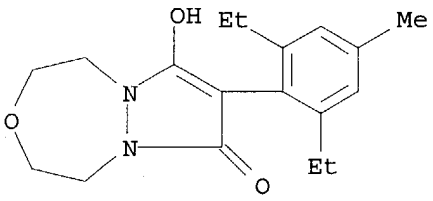
IT **328932-94-1 328932-95-2 328932-96-3**
328932-97-4 328932-98-5 328932-99-6
328933-00-2
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(safened herbicide)

RN 328932-94-1 CAPLUS

CN Acetic acid, [(5-chloro-8-quinolinyl)oxy]-, 1-methylhexyl ester, mixt. with 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one (9CI) (CA INDEX NAME)

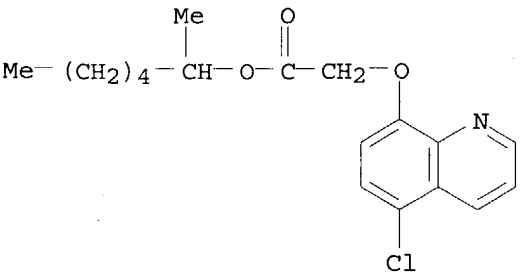
CM 1

CRN 243973-19-5
CMF C18 H24 N2 O3



CM 2

CRN 99607-70-2
CMF C18 H22 Cl N O3

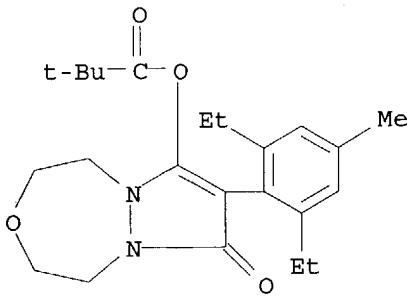


RN 328932-95-2 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, mixt. with 1-methylhexyl [(5-chloro-8-quinolinyl)oxy]acetate (9CI) (CA INDEX NAME)

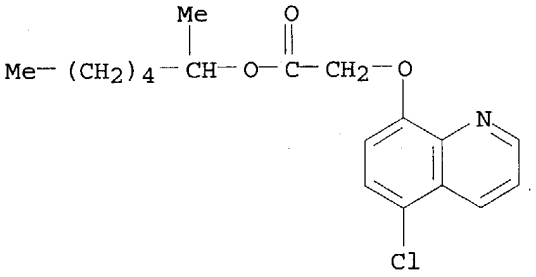
CM 1

CRN 243973-20-8
CMF C23 H32 N2 O4



CM 2

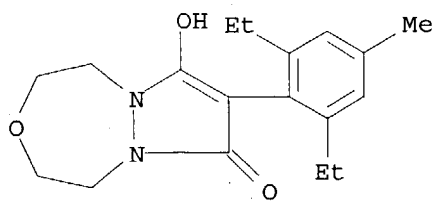
CRN 99607-70-2
CMF C18 H22 Cl N O3



RN 328932-96-3 CAPLUS
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy-, mixt. with Merge (9CI) (CA INDEX NAME)

CM 1

CRN 243973-19-5
CMF C18 H24 N2 O3



CM 2

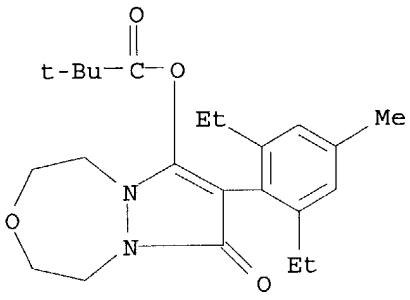
CRN 147230-14-6

CMF Unspecified
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 328932-97-4 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, mixt. with Merge (9CI) (CA INDEX NAME)

CM 1

CRN 243973-20-8
CMF C23 H32 N2 O4



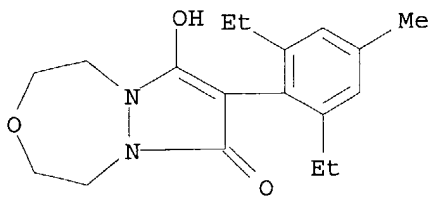
CM 2

CRN 147230-14-6
CMF Unspecified
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 328932-98-5 CAPLUS
CN Acetic acid, [(5-chloro-8-quinolinyl)oxy]-, 1-methylhexyl ester, mixt. with 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one and Merge (9CI) (CA INDEX NAME)

CM 1

CRN 243973-19-5
CMF C18 H24 N2 O3



CM 2

CRN 147230-14-6
CMF Unspecified
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

CRN 99607-70-2
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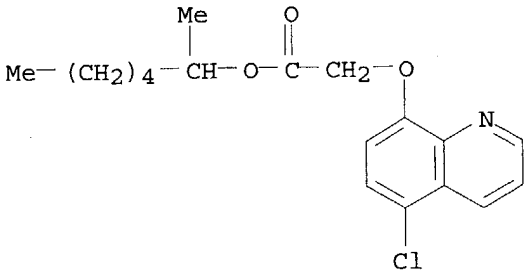
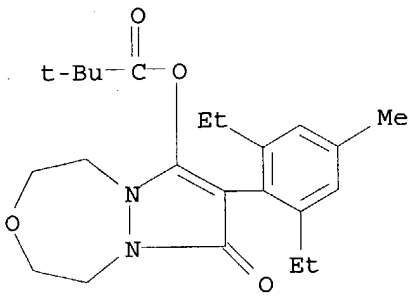


RN 328932-99-6 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, mixt. with Merge and 1-methylhexyl [(5-chloro-8-quinolinyl)oxy]acetate (9CI) (CA INDEX NAME)

CM 1

CRN 243973-20-8
CMF C23 H32 N2 O4



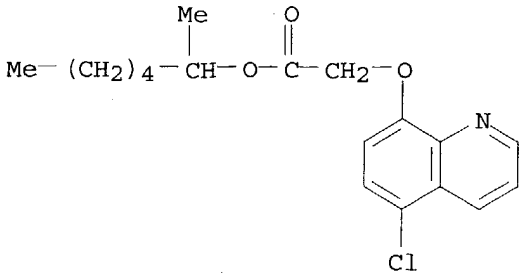
CM 2

CRN 147230-14-6
CMF Unspecified
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

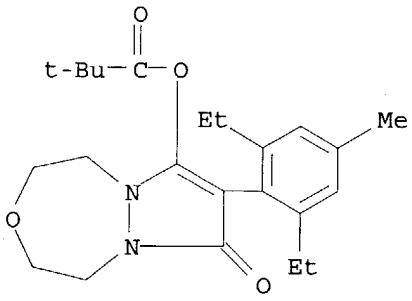
CRN 99607-70-2
CMF C18 H22 Cl N O3



RN 328933-00-2 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, mixt. with Amigo and 1-methylhexyl [(5-chloro-8-quinolinyl)oxy]acetate (9CI) (CA INDEX NAME)

CM 1

CRN 243973-20-8
CMF C23 H32 N2 O4



CM 2

CRN 159605-28-4
CMF Unspecified
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

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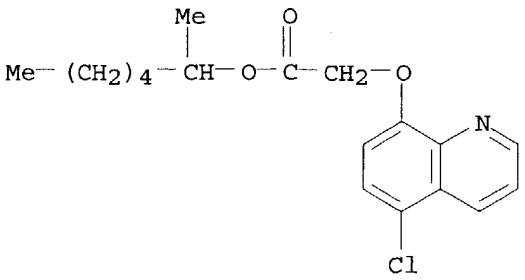

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:185498 CAPLUS
DOCUMENT NUMBER: 134:218317
TITLE: Optionally-safened synergistic herbicidal compositions and preparation of the pyrazole derivative component
INVENTOR(S): Glock, Jutta; Friedmann, Adrian Alberto; Cornes, Derek
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.
SOURCE: PCT Int. Appl., 54 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001017351	A1	20010315	WO 2000-EP8658	20000905
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1209972	A1	20020605	EP 2000-960605	20000905
EP 1209972	B1	20030528		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
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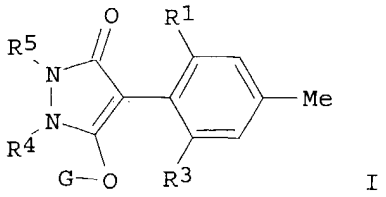
AU 762346	B2	20030626	AU 2000-72844	20000905
PT 1209972	T	20031031	PT 2000-960605	20000905

PRIORITY APPLN. INFO.: CH 1999-1641 A 19990907
WO 2000-EP8658 W 20000905

OTHER SOURCE(S): MARPAT 134:218317
ED Entered STN: 16 Mar 2001
GI



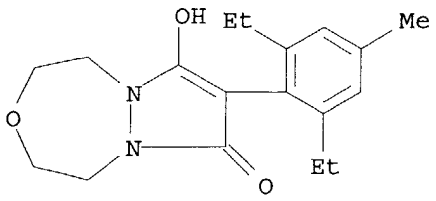
I

AB An optionally safened synergistic selective herbicidal compn. comprises: (a) a pyrazole deriv. I (R1, R3 = halo, nitro, cyano, alkyl, alkenyl, etc.; R4R5 = CH2CH2OCH2CH2, etc.; G = H COCMe3, CO2Et, etc.); (b) a herbicide selected from phenoxyphenoxypropionic acids, hydroxylamines, sulfonylureas, imidazolinones, pyrimidines, triazines, ureas, PPO, chloroacetanilides, phenoxyacetic acids, triazinones, dinitroanilines, azinones, carbamates, oxyacetamides, thiolcarbamates, azole-ureas, benzoic acids, anilides, nitriles, triones and sulfonamides, as well as from amitrol, benfuresate, bentazone, cinmethylin, clomazone, clopyralid, difenzoquat, dithiopyr, ethofumesate, flurochloridone, indanofan, isoxaben, oxaziclomefone, pyridate, pyridafol, quinclorac, quinmerac, tridiphane and flamprop; and optionally (c) a safener selected from cloquintocet, an alkali, alk. earth, sulfonium or ammonium salt of cloquintocet, cloquintocet-mexyl, mefenpyr, an alkali, alk. earth, sulfonium or ammonium salt of mefenpyr and mefenpyr-diethyl; and/or (d) an additive comprising an oil of vegetable or animal origin, a mineral oil, the alkyl esters thereof or mixts. of these oils and oil derivs. The prepn. of I is given.

IT **243973-19-5P 243973-20-8P 243973-21-9P**
243973-26-4P 243973-27-5P 243973-28-6P
243973-68-4P 328932-73-6P 328932-74-7P
328932-75-8P 328932-76-9P 328932-77-0P
328932-78-1P 328932-80-5P 328932-81-6P
328932-82-7P 328932-83-8P 328932-84-9P
328932-85-0P 328932-91-8P 328932-92-9P
328932-93-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. as component in optionally-safened synergistic herbicidal compns.)

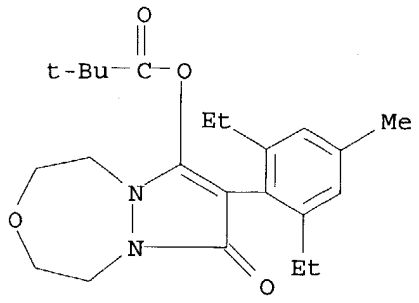
RN 243973-19-5 CAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)

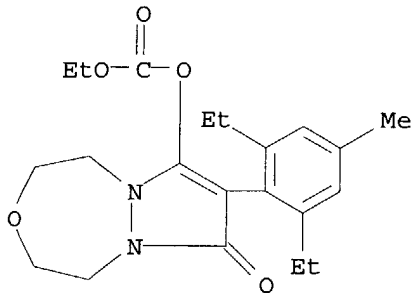


RN 243973-20-8 CAPLUS

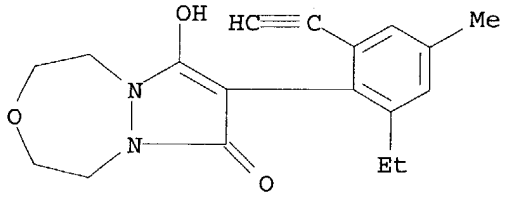
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



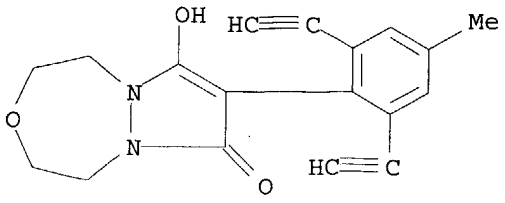
RN 243973-21-9 CAPLUS
CN Carbonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ethyl ester (9CI) (CA INDEX NAME)



RN 243973-26-4 CAPLUS
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-6-ethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)

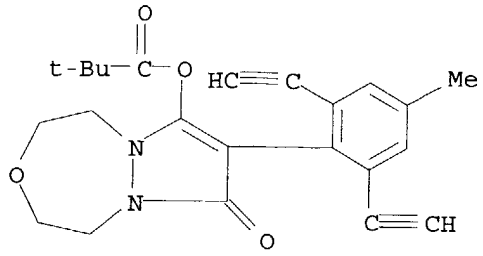


RN 243973-27-5 CAPLUS
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)

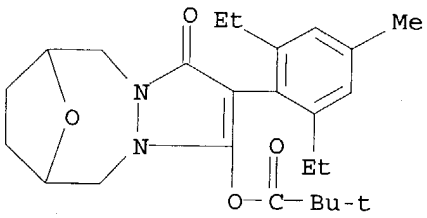


RN 243973-28-6 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-

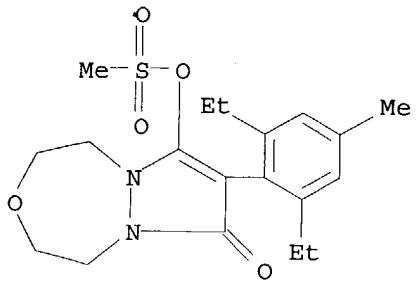
tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)
(CA INDEX NAME)



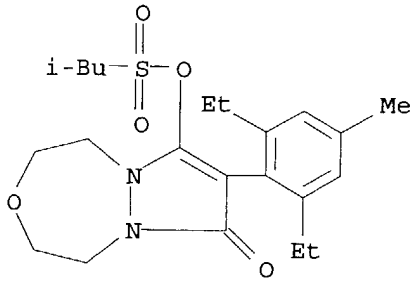
RN 243973-68-4 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8,9,10-hexahydro-1-oxo-6,9-epoxy-1H-pyrazolo[1,2-a][1,2]diazocin-3-yl ester (9CI)
(CA INDEX NAME)



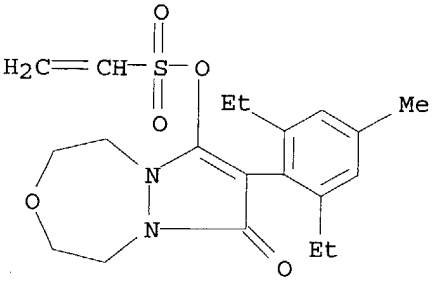
RN 328932-73-6 CAPLUS
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-[(methylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



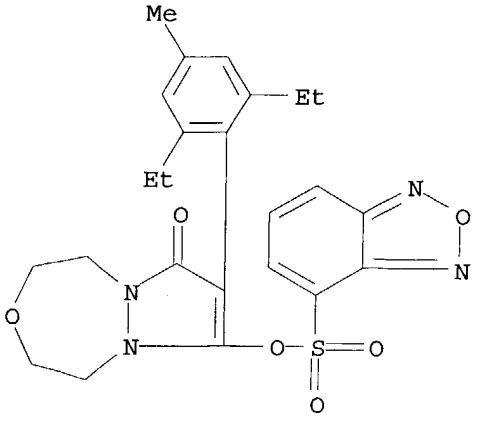
RN 328932-74-7 CAPLUS
CN 1-Propanesulfonic acid, 2-methyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)
(CA INDEX NAME)



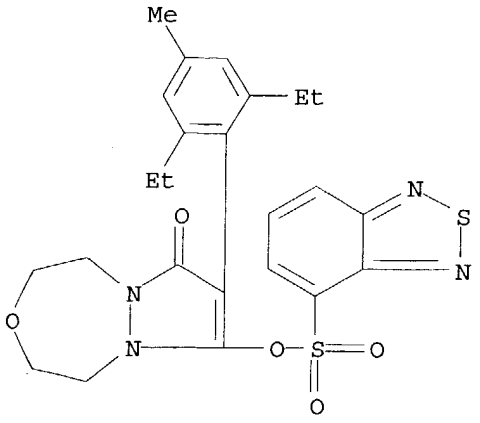
RN 328932-75-8 CAPLUS
CN Ethenesulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



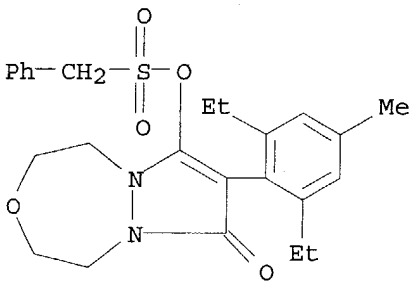
RN 328932-76-9 CAPLUS
CN 2,1,3-Benzoxadiazole-4-sulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



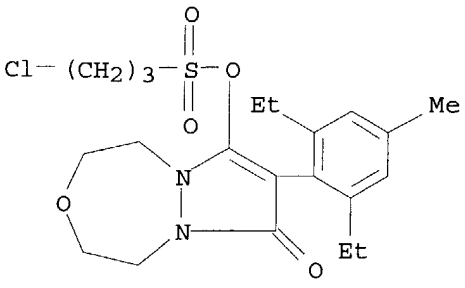
RN 328932-77-0 CAPLUS
CN 2,1,3-Benzothiadiazole-4-sulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



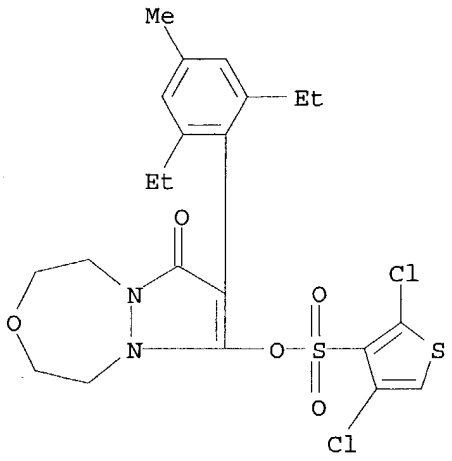
RN 328932-78-1 CAPLUS
CN Benzenemethanesulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



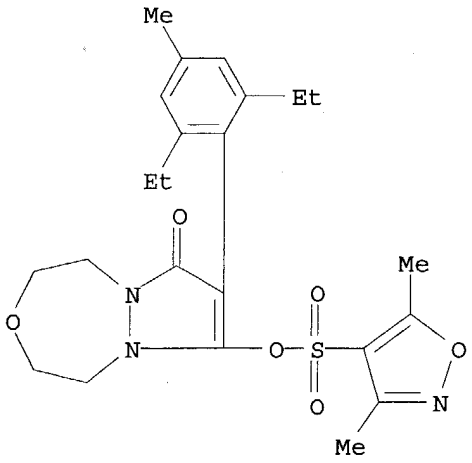
RN 328932-80-5 CAPLUS
CN 1-Propanesulfonic acid, 3-chloro-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



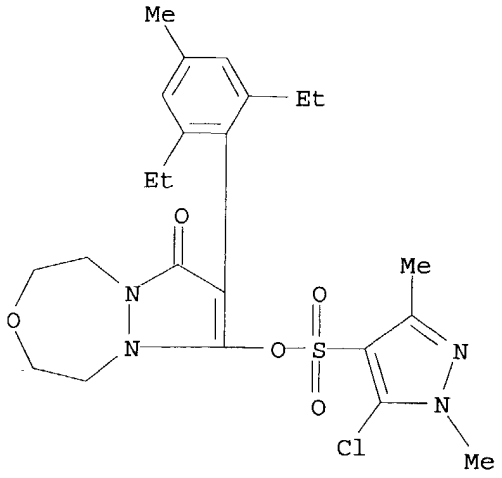
RN 328932-81-6 CAPLUS
CN 3-Thiophenesulfonic acid, 2,4-dichloro-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



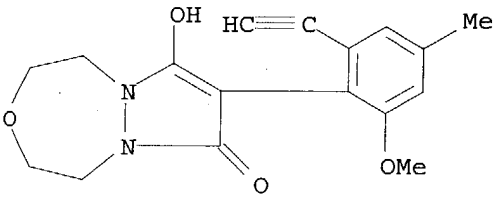
RN 328932-82-7 CAPLUS
CN 4-Isoxazolesulfonic acid, 3,5-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



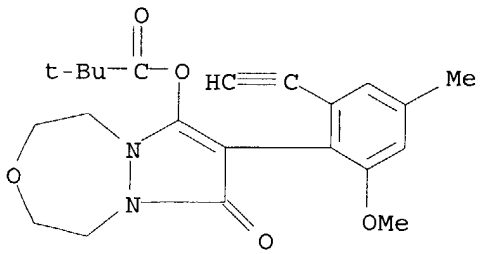
RN 328932-83-8 CAPLUS
CN 1H-Pyrazole-4-sulfonic acid, 5-chloro-1,3-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



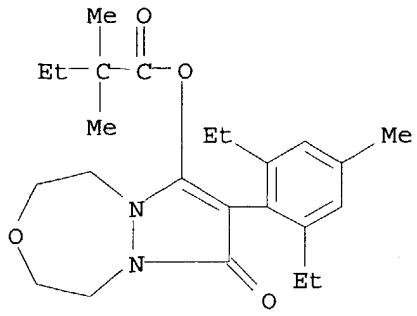
RN 328932-84-9 CAPLUS
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethynyl-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



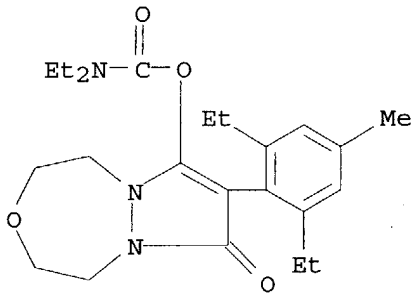
RN 328932-85-0 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethynyl-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



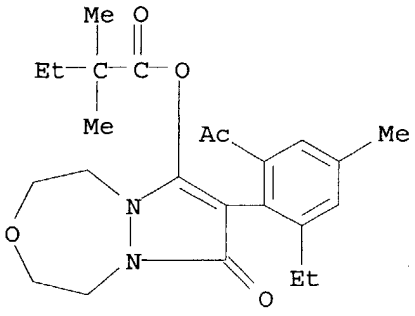
RN 328932-91-8 CAPLUS
CN Butanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 328932-92-9 CAPLUS
CN Carbamic acid, diethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 328932-93-0 CAPLUS
CN Butanoic acid, 2,2-dimethyl-, 8-(2-acetyl-6-ethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)

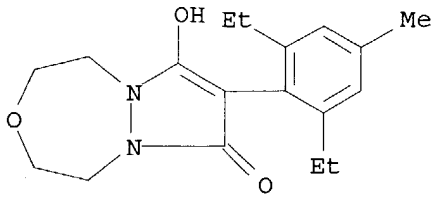


IT **329280-32-2P 329280-33-3P 329280-34-4P**
329280-35-5P 329280-36-6P 329280-37-7P
329280-38-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(safened synergistic herbicidal compns.)
RN 329280-32-2 CAPLUS
CN Propanoic acid, 2-[4-[(5-chloro-3-fluoro-2-pyridinyl)oxy]phenoxy]-, 2-propynyl ester, (2R)-, mixt. with 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, hydrocarbon oils and 1-methylhexyl [(5-chloro-8-quinolinyl)oxy]acetate

(9CI) (CA INDEX NAME)

CM 1

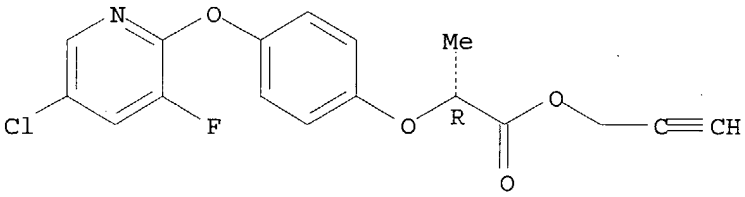
CRN 243973-19-5
CMF C18 H24 N2 O3



CM 2

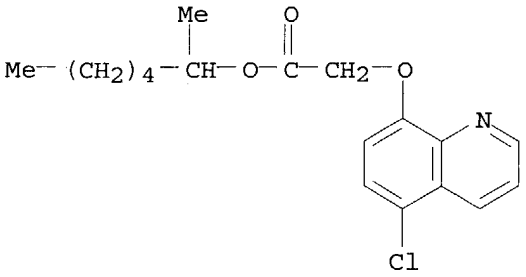
CRN 105512-06-9
CMF C17 H13 Cl F N O4

Absolute stereochemistry.



CM 3

CRN 99607-70-2
CMF C18 H22 Cl N O3



CM 4

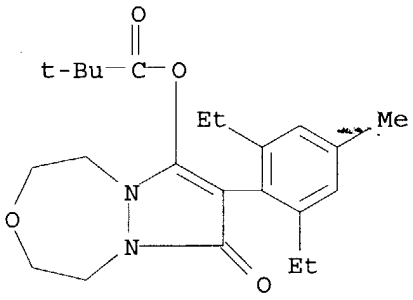
CRN 8020-83-5
CMF Unspecified
CCI MAN, CTS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 329280-33-3 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, mixt. with 2-(2-chloroethoxy)-N-[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]benzenesulfonamide and 1-methylhexyl [(5-chloro-8-quinolinyl)oxy]acetate (9CI) (CA INDEX NAME)

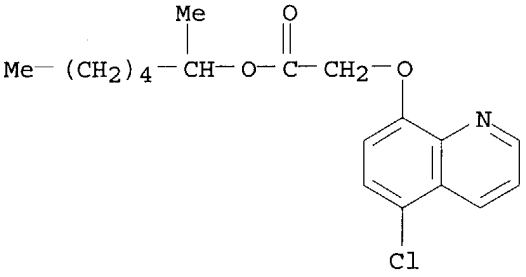
CM 1

CRN 243973-20-8
CMF C23 H32 N2 O4



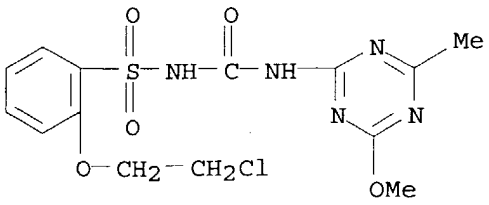
CM 2

CRN 99607-70-2
CMF C18 H22 Cl N O3



CM 3

CRN 82097-50-5
CMF C14 H16 Cl N5 O5 S

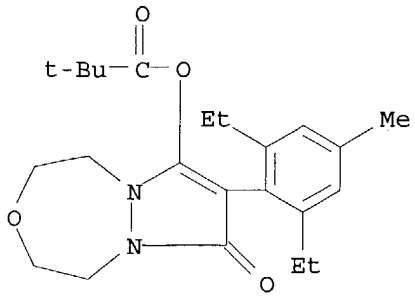


RN 329280-34-4 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-

tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, mixt. with 2-(2-chloroethoxy)-N-[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]benzenesulfonamide, Merge and 1-methylhexyl [(5-chloro-8-quinolinyl)oxy]acetate (9CI) (CA INDEX NAME)

CM 1

CRN 243973-20-8
CMF C23 H32 N2 O4



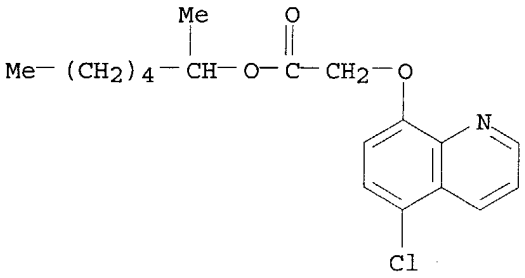
CM 2

CRN 147230-14-6
CMF Unspecified
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

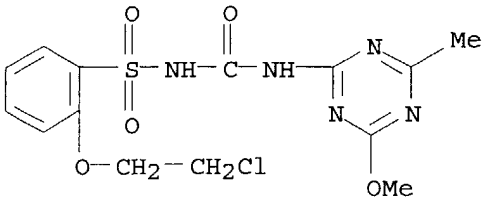
CM 3

CRN 99607-70-2
CMF C18 H22 Cl N O3



CM 4

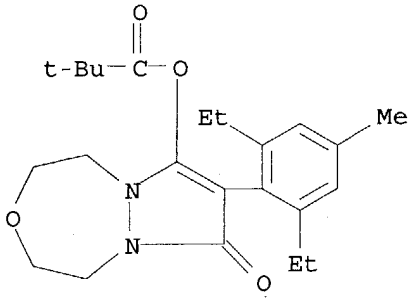
CRN 82097-50-5
CMF C14 H16 Cl N5 O5 S



RN 329280-35-5 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, mixt. with ethyl 2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]propanoate and 1-methylhexyl [(5-chloro-8-quinolinyl)oxy]acetate (9CI) (CA INDEX NAME)

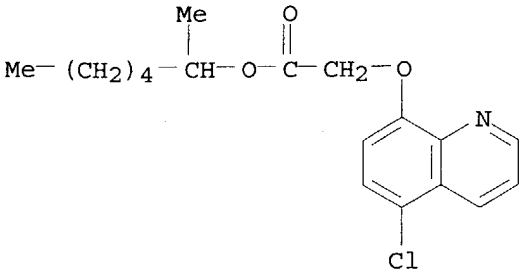
CM 1

CRN 243973-20-8
CMF C23 H32 N2 O4



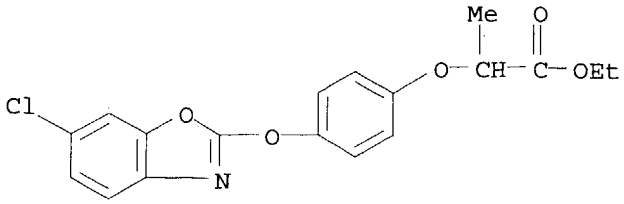
CM 2

CRN 99607-70-2
CMF C18 H22 Cl N O3



CM 3

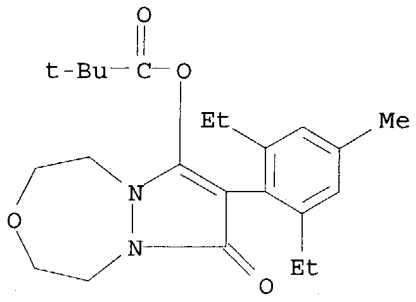
CRN 66441-23-4
CMF C18 H16 Cl N O5



RN 329280-36-6 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, mixt. with ethyl 2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]propanoate, Merge and 1-methylhexyl [(5-chloro-8-quinolinyl)oxy]acetate (9CI) (CA INDEX NAME)

CM 1

CRN 243973-20-8
CMF C23 H32 N2 O4



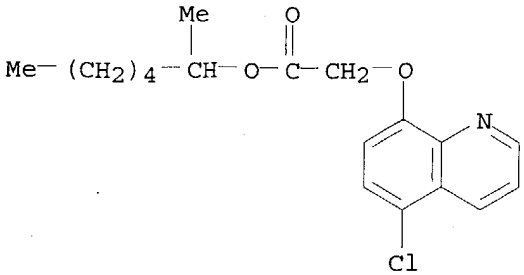
CM 2

CRN 147230-14-6
CMF Unspecified
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

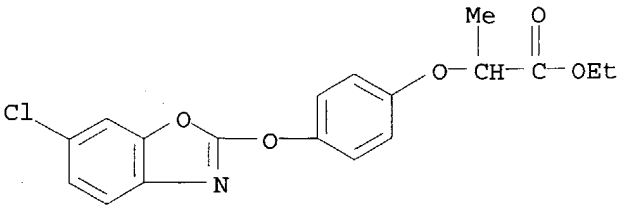
CM 3

CRN 99607-70-2
CMF C18 H22 Cl N O3



CM 4

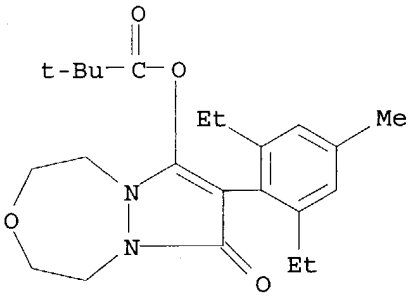
CRN 66441-23-4
CMF C18 H16 Cl N O5



RN 329280-37-7 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, mixt. with 2-[1-(ethoxyimino)propyl]-3-hydroxy-5-(2,4,6-trimethylphenyl)-2-cyclohexen-1-one and 1-methylhexyl [(5-chloro-8-quinolinyl)oxy]acetate (9CI) (CA INDEX NAME)

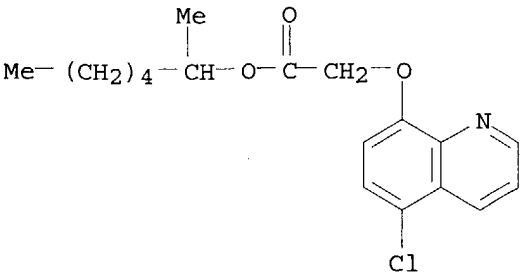
CM 1

CRN 243973-20-8
CMF C23 H32 N2 O4



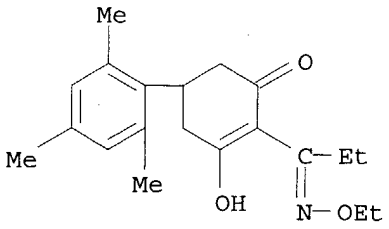
CM 2

CRN 99607-70-2
CMF C18 H22 Cl N O3



CM 3

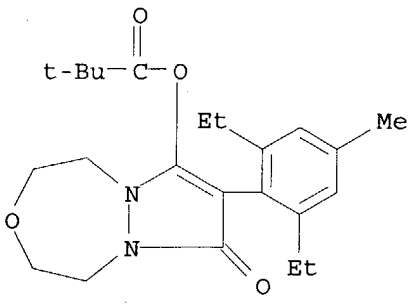
CRN 87820-88-0
CMF C20 H27 N O3



RN 329280-38-8 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, mixt. with 2-[1-(ethoxyimino)propyl]-3-hydroxy-5-(2,4,6-trimethylphenyl)-2-cyclohexen-1-one, Merge and 1-methylhexyl [(5-chloro-8-quinolinyl)oxy]acetate (9CI) (CA INDEX NAME)

CM 1

CRN 243973-20-8
CMF C23 H32 N2 O4



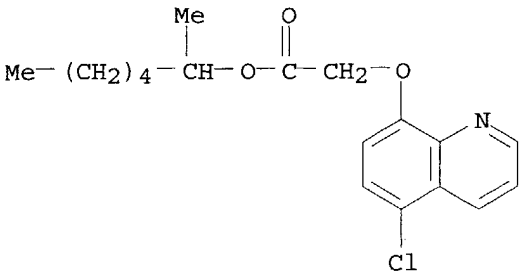
CM 2

CRN 147230-14-6
CMF Unspecified
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

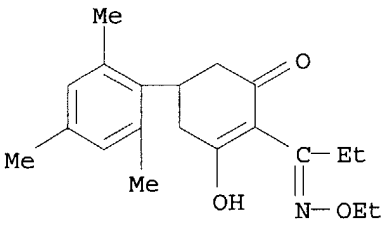
CM 3

CRN 99607-70-2
CMF C18 H22 Cl N O3



CM 4

CRN 87820-88-0
CMF C20 H27 N O3



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2000:911362 CAPLUS
DOCUMENT NUMBER: 134:56699
TITLE: Process for the preparation of herbicidally active 3-hydroxy-4-aryl-5-oxopyrazoline derivatives
INVENTOR(S): Maetzke, Thomas; Mutti, Rene; Szczepanski, Henry
PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis-Erfindungen Verwaltungsgesellschaft m.b.H.
SOURCE: PCT Int. Appl., 51 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000078881	A2	20001228	WO 2000-EP5476	20000614
WO 2000078881	A3	20010517		

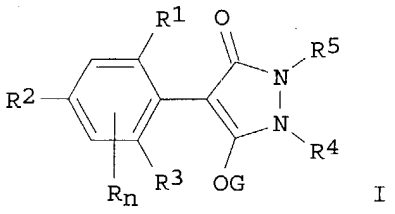
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

EP 1183317	A2	20020306	EP 2000-942071	20000614

EP 1183317	B1	20030917			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, PT, IE, SI, LT, LV, FI, RO					
BR 2000011702	A	20020326	BR 2000-11702		20000614
JP 2003503317	T2	20030128	JP 2001-505631		20000614
AU 765302	B2	20030911	AU 2000-56821		20000614
AT 250113	E	20031015	AT 2000-942071		20000614
US 6552187	B1	20030422	US 2001-980240		20011129
PRIORITY APPLN. INFO.:			CH 1999-1122	A	19990616
			WO 2000-EP5476	W	20000614

OTHER SOURCE(S): CASREACT 134:56699; MARPAT 134:56699
ED Entered STN: 29 Dec 2000
GI



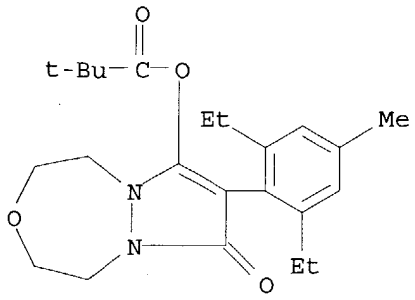
I

AB The title compds. I [R = halo, alkyl, alkenyl, etc.; R together with R1, R2, and R3 forms a bridge; R2 = aryl; R4, R5 = H, alkyl, haloalkyl, etc.; n = 0-2] were prepd. by reaction of arylmalonic acid diamides or arylmalonic acid monoamides with hydrazine derivs. E.g., 8-(2,6-diethyl-4-methylphenyl)tetrahydropyrazolo[1,2-d][1,4,5]oxadiazepine-7,9-dione was prepd.

IT **243973-20-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of 3-hydroxy-4-aryl-5-oxopyrazoline derivs.)

RN 243973-20-8 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)

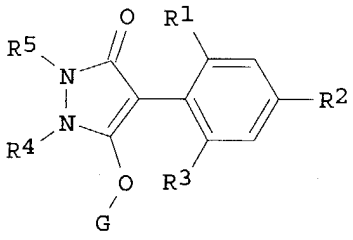


L11 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2000:573799 CAPLUS
DOCUMENT NUMBER: 133:164053
TITLE: Preparation of 3-hydroxy-4-aryl-5-pyrazolines as herbicides

INVENTOR(S): Muhlebach, Michel; Glock, Jutta; Maetzke, Thomas; Stoller, Andre
PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis-Erfindungen Verwaltungsgesellschaft m.b.H.
SOURCE: PCT Int. Appl., 113 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000047585	A1	20000817	WO 1999-EP898	19990211
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9926233	A1	20000829	AU 1999-26233	19990211

PRIORITY APPLN. INFO.: WO 1999-EP898 A 19990211
OTHER SOURCE(S): MARPAT 133:164053
ED Entered STN: 18 Aug 2000
GI

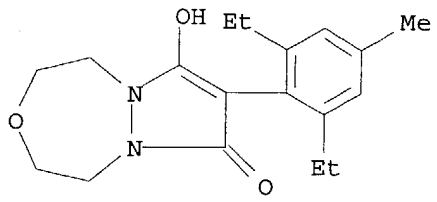


I

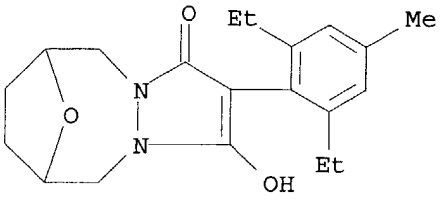
AB The title compds. [I; R1-R3 = halo, NO2, CN, etc.; R4R5 together = (CH2)2O(CH2)2, (CH2)2OCH2CH(Me), etc.; G = H, COtBu, CO2Et] which are suitable for use as herbicides, in particular in combination with herbicide-antagonistically effective compds., were prepd. E.g., a multi-step synthesis of I [R1-R3 = Me; R4R5 = (CH2)2O(CH2)2; G = H] which showed 100% control against Lolium, Setaria, Panicum, Sorghum, and Echinochloa at 500 g of ai/ha in pre-emergence test, was given.

IT **243973-19-5P 243973-67-3P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(prepn. of 3-hydroxy-4-aryl-5-pyrazolines as herbicides)

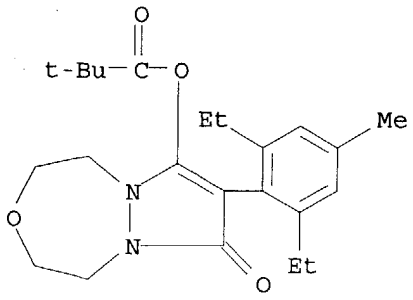
RN 243973-19-5 CAPLUS
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



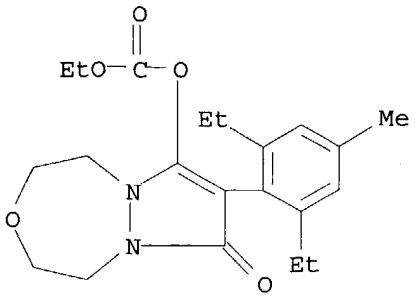
RN 243973-67-3 CAPLUS
CN 6,9-Epoxy-1H-pyrazolo[1,2-a][1,2]diazocin-1-one, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8,9,10-hexahydro-3-hydroxy- (9CI) (CA INDEX NAME)



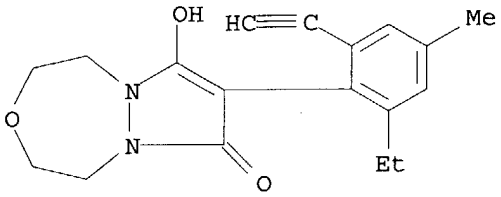
IT **243973-20-8P 243973-21-9P 243973-26-4P**
243973-27-5P 243973-28-6P 243973-60-6P
243973-61-7P 243973-68-4P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of 3-hydroxy-4-aryl-5-pyrazolines as herbicides)
RN 243973-20-8 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



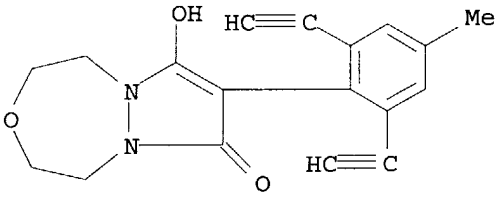
RN 243973-21-9 CAPLUS
CN Carbonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ethyl ester (9CI) (CA INDEX NAME)



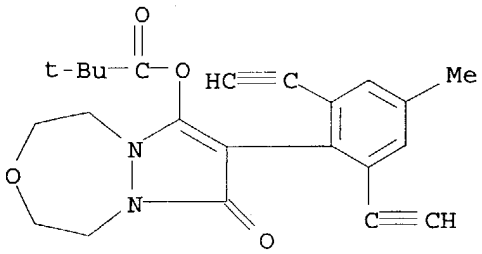
RN 243973-26-4 CAPLUS
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-6-ethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



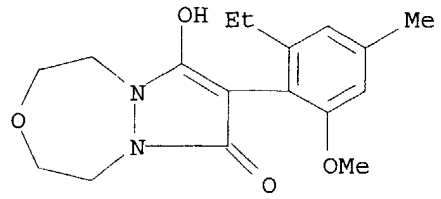
RN 243973-27-5 CAPLUS
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



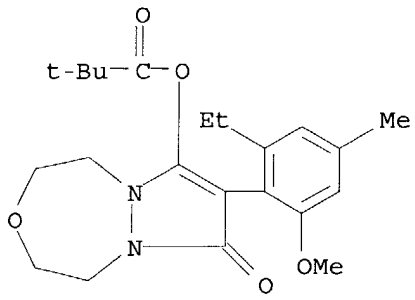
RN 243973-28-6 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



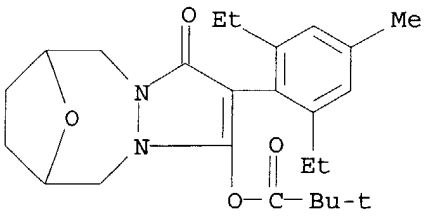
RN 243973-60-6 CAPLUS
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



RN 243973-61-7 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethyl-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 243973-68-4 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8,9,10-hexahydro-1-oxo-6,9-epoxy-1H-pyrazolo[1,2-a][1,2]diazocin-3-yl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

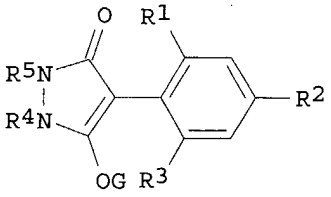
L11 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:613908 CAPLUS
DOCUMENT NUMBER: 131:228720
TITLE: Preparation of fused 3-hydroxy-4-aryl-5-oxopyrazolines as herbicides.
INVENTOR(S): Muhlebach, Michel; Glock, Jutta; Maetzke, Thomas; Stoller, Andre
PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis-Erfindungen Verwaltungsgesellschaft m.b.H.
SOURCE: PCT Int. Appl., 110 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

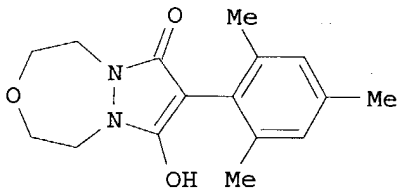
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9947525	A1	19990923	WO 1999-EP1593	19990311
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
ZA 9901392	A	19990913	ZA 1999-1392	19990222
ZA 9901391	A	20000822	ZA 1999-1391	19990222
CA 2318976	AA	19990923	CA 1999-2318976	19990311
AU 9934109	A1	19991011	AU 1999-34109	19990311
AU 741365	B2	20011129		
BR 9908757	A	20001205	BR 1999-8757	19990311
EP 1062217	A1	20001227	EP 1999-915574	19990311
EP 1062217	B1	20030604		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, IE				
JP 2002506870	T2	20020305	JP 2000-536720	19990311
AT 242249	E	20030615	AT 1999-915574	19990311
RU 2221787	C2	20040120	RU 2000-125819	19990311
US 6410480	B1	20020625	US 2000-646142	20000913

PRIORITY APPLN. INFO.: CH 1998-616 A 19980313
CH 1998-2431 A 19981208
WO 1999-EP1593 W 19990311

OTHER SOURCE(S): MARPAT 131:228720
ED Entered STN: 26 Sep 1999
GI



I



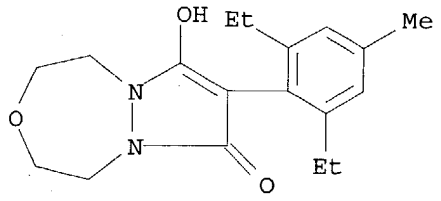
II

AB Title compds. [I; R1-R3 = halo, NO2, cyano, alkyl, alkenyl, alkynyl, haloalkyl, haloalkenyl, cycloalkyl, halocycloalkyl, OH, SH, alkoxy, alkenyloxy, alkynyloxy, alkylsulfonyl, etc.; R4R5 = (alkylene-fused) CR6R7OCR8R9CR10R11CR12R13, etc.; R6-R13 = H, halo, alkyl, haloalkyl; G = H, CX1R30, SO2R34, alkali metal, alk. earth metal, sulfonium or ammonium cation, etc.; X1 = O, S; R30 = H, alkyl, haloalkyl, alkenyl, alkoxyalkyl, alkoxyalkyl, Ph, etc.], were prepd. Thus, hexahydro-1,4,5-oxadiazepine dihydrobromide (prepn. given) was heated with di-Et 2-(2,4,6-trimethylphenyl)malonate and Et3N in xylene at 150.degree. with distn. of EtOH to give title compd. (II). The latter at 500 g/ha preemergent gave complete control of Lolium, Setaria, Panicum, Echinochloa, etc.

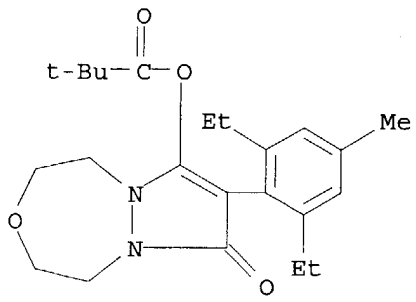
IT **243973-19-5P 243973-20-8P 243973-21-9P**
243973-26-4P 243973-27-5P 243973-28-6P
243973-60-6P 243973-61-7P 243973-67-3P
243973-68-4P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except

adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of fused 3-hydroxy-4-aryl-5-oxopyrazolines as herbicides)

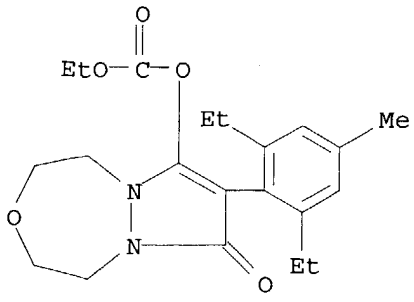
RN 243973-19-5 CAPLUS
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



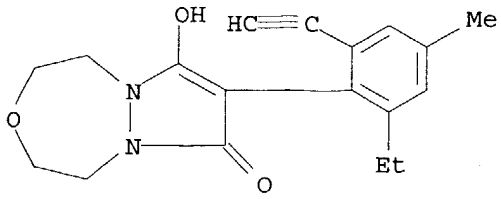
RN 243973-20-8 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



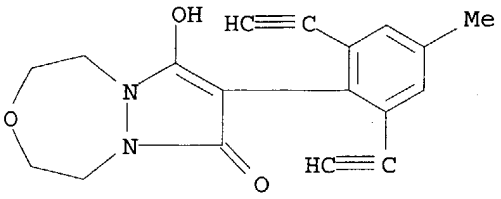
RN 243973-21-9 CAPLUS
CN Carbonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ethyl ester (9CI) (CA INDEX NAME)



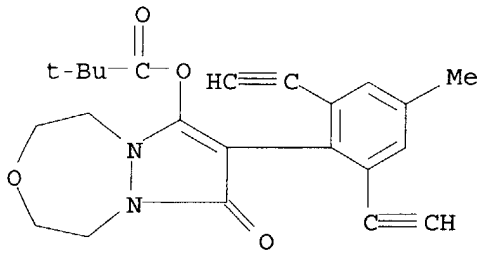
RN 243973-26-4 CAPLUS
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-6-ethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



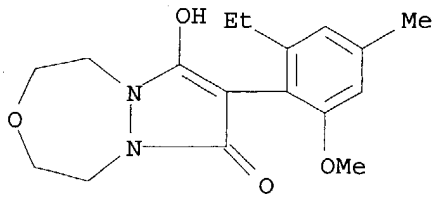
RN 243973-27-5 CAPLUS
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



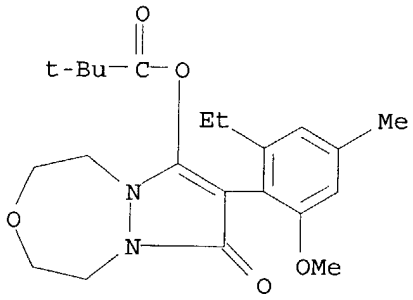
RN 243973-28-6 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



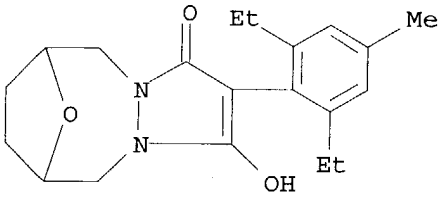
RN 243973-60-6 CAPLUS
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



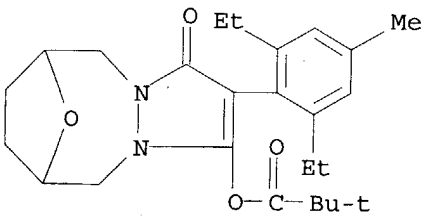
RN 243973-61-7 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethyl-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 243973-67-3 CAPLUS
CN 6,9-Epoxy-1H-pyrazolo[1,2-a][1,2]diazocin-1-one, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8,9,10-hexahydro-3-hydroxy- (9CI) (CA INDEX NAME)



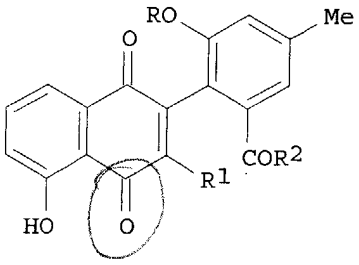
RN 243973-68-4 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8,9,10-hexahydro-1-oxo-6,9-epoxy-1H-pyrazolo[1,2-a][1,2]diazocin-3-yl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1995:74516 CAPLUS
DOCUMENT NUMBER: 122:187181
TITLE: Synthesis of Antibiotics WS 5995 A and C and Related Compounds by Palladium-Catalyzed Coupling of 2-Bromonaphthoquinones with Organostannanes
AUTHOR(S): Echavarren, Antonio M.; Tamayo, Nuria; Cardenas, Diego J.
CORPORATE SOURCE: Departamento de Quimica Organica, Universidad Autonoma de Madrid, Madrid, 28049, Spain
SOURCE: Journal of Organic Chemistry (1994), 59(20), 6075-83
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 122:187181

ED Entered STN: 08 Nov 1994
GI



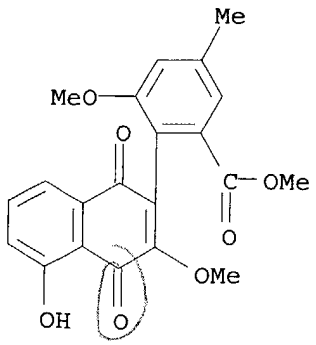
I

AB The synthesis of arylnaphthoquinones can be performed simply by using as the key reaction the Pd(0)- and Cu(I)-catalyzed coupling of arylstannanes with 2-bromonaphthoquinones as the electrophiles. The palladium-catalyzed coupling reaction is general and allows for the functionalization of the unprotected quinone nucleus with alkyl, alkenyl, and aryl substituents. The coupling process tolerates the presence of a chelated peri hydroxyl and steric crowding of a 2,6-disubstituted arylstannane, although the prepn. of a 2,6,2',6'-tetrasubstituted biaryl by coupling of 2-bromo-3,5-bis(acetoxy)-1,4-naphthoquinone as the electrophile with 2,6-disubstituted arylstannanes was unsuccessful. The syntheses of quinonoid antibiotics WS 5995 A (I, R = Me, R1R2 = O) and C (I, R = Me, R1 = R2 = OH) was accomplished by using this method as the key step. Benzo[b]phenanthridinone I (R = H, R1R2 = NH), hypothetical intermediate in the biosynthesis of benzo[b]phenanthridine alkaloids, was also prepd. from antibiotic WS 5995 C or by addn. of ammonia to I (R = Me, R1 = H, R2 = NEt2) followed by heterocyclization.

IT **76959-18-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of antibiotics WS 5995 A and C and related compds. by palladium-catalyzed coupling of 2-bromonaphthoquinones with organostannanes)

RN 76959-18-7 CAPLUS

CN Benzoic acid, 2-(1,4-dihydro-5-hydroxy-3-methoxy-1,4-dioxo-2-naphthalenyl)-3-methoxy-5-methyl-, methyl ester (9CI) (CA INDEX NAME)



L11 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1991:631943 CAPLUS
DOCUMENT NUMBER: 115:231943
TITLE: Palladium-catalyzed coupling of 2-bromonaphthoquinones

with stannanes: a concise synthesis of antibiotics WS 5995 A and C and related compounds

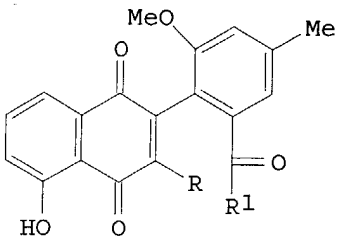
AUTHOR(S): Tamayo, Nuria; Echavarren, Antonio M.; Paredes, M. Carmen

CORPORATE SOURCE: Inst. Quim. Org., CSIC, Madrid, 28006, Spain

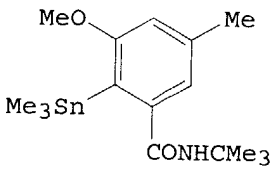
SOURCE: Journal of Organic Chemistry (1991), 56(23), 6488-91
CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 115:231943
ED Entered STN: 29 Nov 1991

GI



I



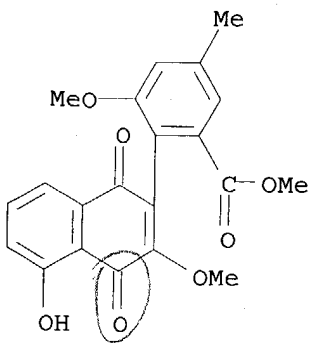
II

AB The Pd-catalyzed coupling of 2-bromo-1,4-naphthoquinones with stannanes gives 2-substituted 1,4-naphthoquinones in good yields, even in the presence of unprotected hydroxyl groups on the naphthoquinone. The reaction also proceeds smoothly with sterically hindered arylstannanes. In most instances the reaction is promoted by the addn. of CuBr. The utility of this reaction is illustrated by the syntheses of antibiotics WS 5995 A (I, R, R1 = OH) and C (I, RR1 = O) and the hypothetical intermediate I (RR1 = NH) in the biosynthesis of the kinamycin antibiotics from I (R = H, R1 = NHCMe3) prepd. from 2-bromojuglone and the stannane II.

IT **76959-18-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and lactamization of)

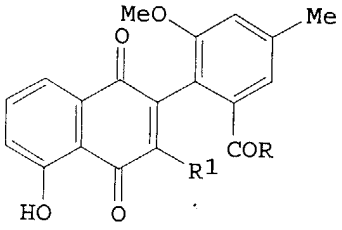
RN 76959-18-7 CAPLUS

CN Benzoic acid, 2-(1,4-dihydro-5-hydroxy-3-methoxy-1,4-dioxo-2-naphthalenyl)-3-methoxy-5-methyl-, methyl ester (9CI) (CA INDEX NAME)



L11 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1984:51339 CAPLUS

DOCUMENT NUMBER: 100:51339
TITLE: Structure and synthesis of new anticoccidial antibiotics isolated from Streptomyces auranticolor
AUTHOR(S): Ikushima, Hiroichi; Takase, Shigehiro; Kawai, Yoshio; Itoh, Yoshikuni; Okamoto, Masanori; Tanaka, Hirokazu; Imanaka, Hiroshi
CORPORATE SOURCE: Ferment. Res. Lab., Fujisawa Pharm. Co., Ltd., Osaka, 532, Japan
SOURCE: Agricultural and Biological Chemistry (1983), 47(10), 2231-5
CODEN: ABCHA6; ISSN: 0002-1369
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
GI



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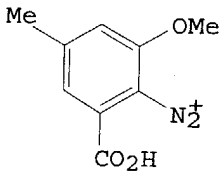
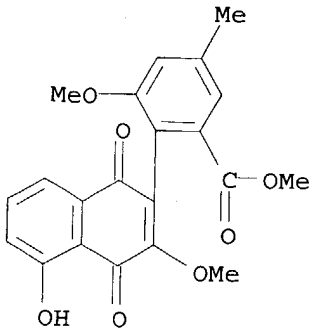


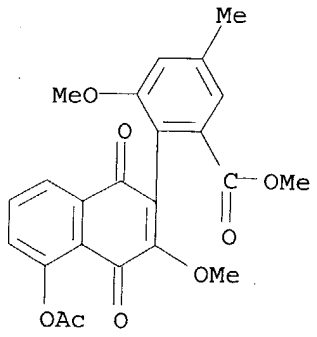
II

AB The structures of 2 new anticoccidal antibiotics, WS-5995 A and B, produced by Streptomyces auranticolor, were detd. as I (RR1 = O; R = OH, R1 = H), resp., on the basis of spectral and chem. evidence. WS-5995 A was synthesized by coupling the diazonium salt II to 3-hydroxyjuglone.

IT **76959-18-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and acetylation of)
RN 76959-18-7 CAPLUS
CN Benzoic acid, 2-(1,4-dihydro-5-hydroxy-3-methoxy-1,4-dioxo-2-naphthalenyl)-3-methoxy-5-methyl-, methyl ester (9CI) (CA INDEX NAME)



IT **76959-19-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 76959-19-8 CAPLUS
CN Benzoic acid, 2-[5-(acetyloxy)-1,4-dihydro-3-methoxy-1,4-dioxo-2-naphthalenyl]-3-methoxy-5-methyl-, methyl ester (9CI) (CA INDEX NAME)

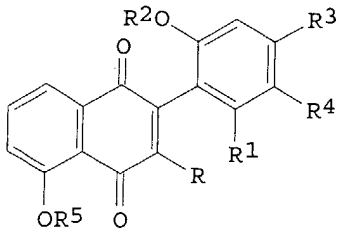


L11 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1982:34943 CAPLUS
DOCUMENT NUMBER: 96:34943
TITLE: 1,4-Naphthoquinone derivatives and their use
INVENTOR(S): Ikushima, Koichi; Kohsaka, Masanobu; Ohe, Osamu; Arakawa, Akira; Tanaka, Hirokazu; Aoki, Hatsuo; Kino, Eiko; Imanaka, Hiroshi
PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd. , Japan
SOURCE: PCT Int. Appl., 65 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8102574	A1	19810917	WO 1981-JP46	19810306
W: US				
RW: AT, CH, DE, FR, GB, LU, NL, SE				
JP 56125335	A2	19811001	JP 1980-29675	19800306
JP 01015491	B4	19890317		
EP 47323	A1	19820317	EP 1981-900552	19810306
EP 47323	B1	19841010		
R: AT, CH, DE, FR, GB, LU, NL, SE				
AT 9790	E	19841015	AT 1981-900552	19810306
US 4414226	A	19831108	US 1981-317897	19811030
US 4530845	A	19850723	US 1983-511268	19830706

PRIORITY APPLN. INFO.:
JP 1980-29675 19800306
EP 1981-900552 19810306
WO 1981-JP46 19810306
US 1981-317897 19811030

OTHER SOURCE(S): CASREACT 96:34943
ED Entered STN: 12 May 1984
GI



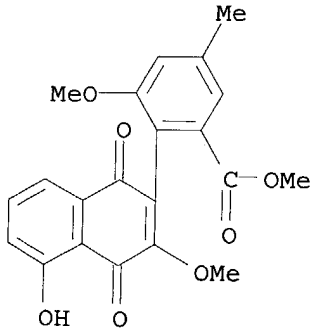
I

AB The title compds. I [R = H, OH, alkyl, alkoxy, arylthio; R1 = (esterified) carboxy, or RR1 = OC(O); R2 = H, alkyl; R3 = alkyl; R4 = H, halo; R5 = H, alkyl, alkanoyl] and their salts, having anti-coccidium activity, were prepd. synthetically or by cultivation of Streptomyces auranticolor. Thus, 170 mg 2-amino-3-methoxy-5-methylbenzoic acid in H2O-HCl was diazotized and the diazonium salt in 5% NaOH treated with 180 mg juglone at 40-45.degree. to give I (R = OH, R1 = CO2H, R2 = R3 = Me, R4 = R5 = H) (no yield given). I were effective at a total dose of 10 mg/chicken.

IT **76959-18-7P 76959-19-8P 80389-41-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and anticoccidium activity of)

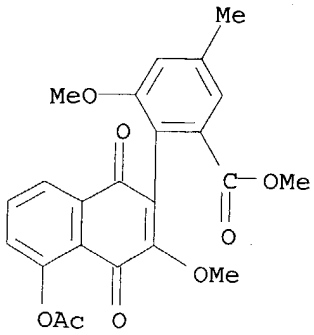
RN 76959-18-7 CAPLUS

CN Benzoic acid, 2-(1,4-dihydro-5-hydroxy-3-methoxy-1,4-dioxo-2-naphthalenyl)-3-methoxy-5-methyl-, methyl ester (9CI) (CA INDEX NAME)



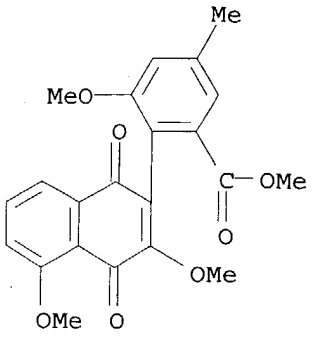
RN 76959-19-8 CAPLUS

CN Benzoic acid, 2-[5-(acetyloxy)-1,4-dihydro-3-methoxy-1,4-dioxo-2-naphthalenyl]-3-methoxy-5-methyl-, methyl ester (9CI) (CA INDEX NAME)

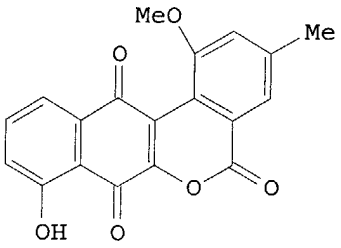


RN 80389-41-9 CAPLUS

CN Benzoic acid, 2-(1,4-dihydro-3,5-dimethoxy-1,4-dioxo-2-naphthalenyl)-3-methoxy-5-methyl-, methyl ester (9CI) (CA INDEX NAME)

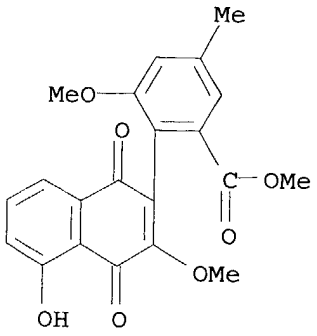


L11 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1981:117420 CAPLUS
DOCUMENT NUMBER: 94:117420
TITLE: Structure elucidation and synthesis of a new anticoccidial substance isolated from Streptomyces auranticolor
AUTHOR(S): Tanaka, Hirokazu; Itoh, Yoshikuni; Ikushima, Hiroichi; Okamoto, Masanori; Kawai, Yoshio; Imanaka, Hiroshi
CORPORATE SOURCE: Ferment. Res. Lab., Fujisawa Pharm. Co., Ltd., Osaka, 532, Japan
SOURCE: Tetrahedron Letters (1980), 21(45), 4359-60
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
GI

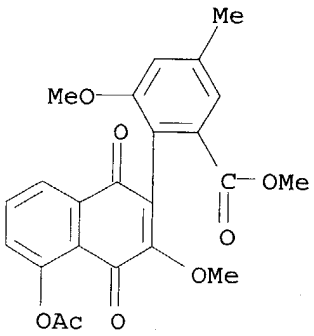


I

AB The structure of WS 5995 (I), an anticoccidial substance isolated from S. auranticolor, was detd. by chem. and spectral means and confirmed by synthesis.
IT **76959-18-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and acetylation of)
RN 76959-18-7 CAPLUS
CN Benzoic acid, 2-(1,4-dihydro-5-hydroxy-3-methoxy-1,4-dioxo-2-naphthalenyl)-3-methoxy-5-methyl-, methyl ester (9CI) (CA INDEX NAME)



IT **76959-19-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 76959-19-8 CAPLUS
CN Benzoic acid, 2-[5-(acetyloxy)-1,4-dihydro-3-methoxy-1,4-dioxo-2-naphthalenyl]-3-methoxy-5-methyl-, methyl ester (9CI) (CA INDEX NAME)



L11 ANSWER 14 OF 18 USPATFULL on STN
ACCESSION NUMBER: 2003:115814 USPATFULL
TITLE: Herbicide agent
INVENTOR(S): Glock, Jutta, Mumpf, SWITZERLAND
Friedmann, Adrian Alberto, Basel, SWITZERLAND
Cornes, Derek, Allschwil, SWITZERLAND
PATENT ASSIGNEE(S): Syngenta Crop Protection, Inc., Greensboro, NC, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6555499	B1	20030429	
	WO 2001017352		20010315	
APPLICATION INFO.:	US 2002-69829		20020226	(10)
	WO 2000-EP8659		20000905	

	NUMBER	DATE
PRIORITY INFORMATION:	CH 1999-1640	19990907

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Pryor, Alton
LEGAL REPRESENTATIVE: Allen, Rose M.
NUMBER OF CLAIMS: 3

EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT: 1455
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Selectively herbicidal composition for the control of grasses and weeds in crops of useful plants, comprising

a) a herbicidally effective amount of a compound of formula I ##STR1##

wherein the substituents are as defined in claim 1;

b) an amount, which is effective for antagonism of the herbicide, of a safener selected from cloquintocet, an alkal metali, alkaline earth metal, sulfonium or ammonium cation of cloquintocet, or cloquintocet-mexyl, mefenpyr, an alkali metal, alkaline earth metal, sulfonium or ammonium cation of mefenpyr, and mefenpyr-diethyl; and

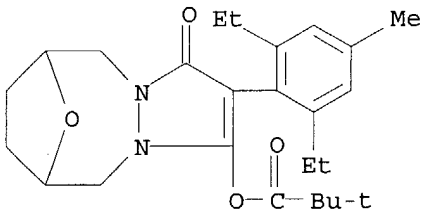
c) an additive comprising an oil of vegetable or animal origin, or a mineral oil, alkyl esters thereof or mixtures of those oils and oil derivatives.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT **243973-68-4P**
(intermediate in prepn. of pyrazole deriv. herbicide for use with safeners)

RN 243973-68-4 USPATFULL

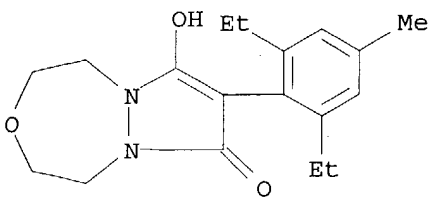
CN Propanoic acid, 2,2-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8,9,10-hexahydro-1-oxo-6,9-epoxy-1H-pyrazolo[1,2-a][1,2]diazocin-3-yl ester (9CI) (CA INDEX NAME)



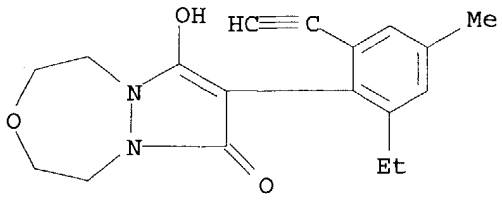
IT **243973-19-5P 243973-26-4P 243973-27-5P**
243973-28-6P 328932-73-6P 328932-74-7P
328932-75-8P 328932-76-9P 328932-77-0P
328932-78-1P 328932-79-2P 328932-80-5P
328932-81-6P 328932-82-7P 328932-83-8P
328932-84-9P 328932-85-0P 328932-91-8P
328932-92-9P 328932-93-0P
(prepn. as herbicide for use with safeners)

RN 243973-19-5 USPATFULL

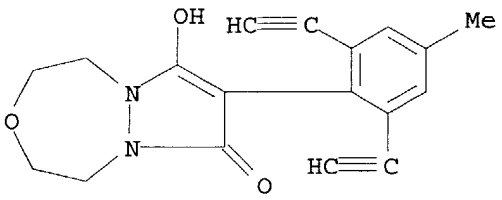
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



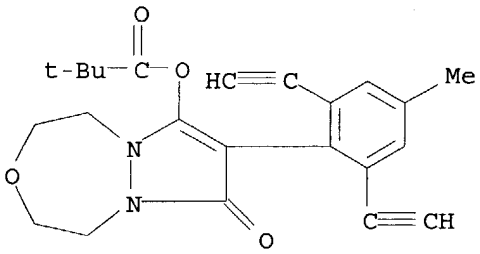
RN 243973-26-4 USPATFULL
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-6-ethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



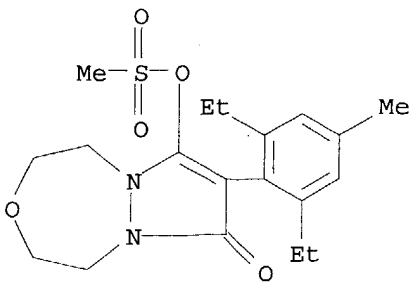
RN 243973-27-5 USPATFULL
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



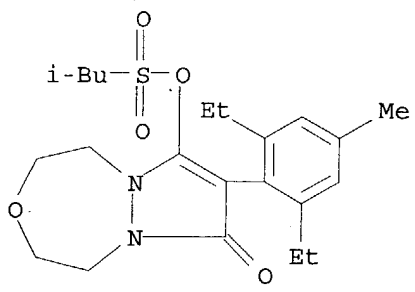
RN 243973-28-6 USPATFULL
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



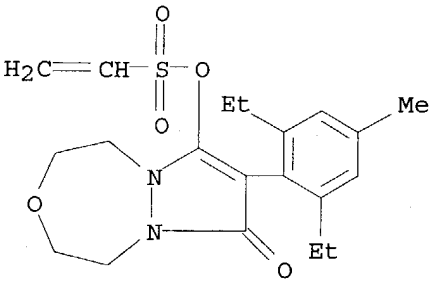
RN 328932-73-6 USPATFULL
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-[(methylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



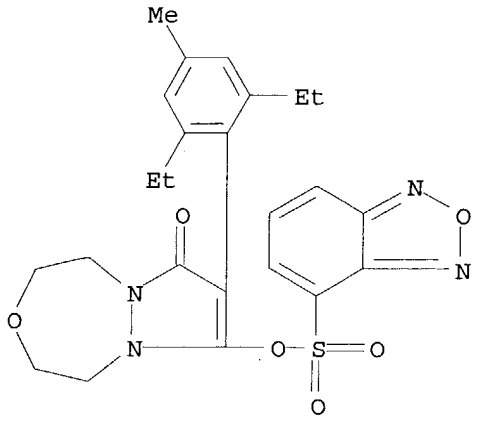
RN 328932-74-7 USPATFULL
CN 1-Propanesulfonic acid, 2-methyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 328932-75-8 USPATFULL
CN Ethenesulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)

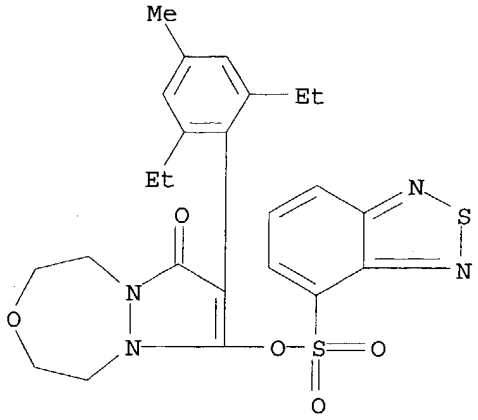


RN 328932-76-9 USPATFULL
CN 2,1,3-Benzoxadiazole-4-sulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)

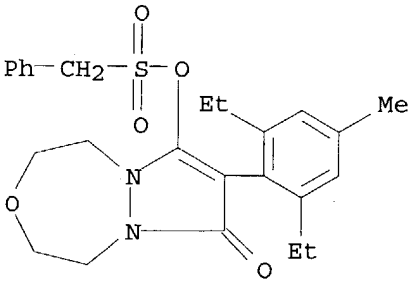


RN 328932-77-0 USPATFULL
CN 2,1,3-Benzothiadiazole-4-sulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-

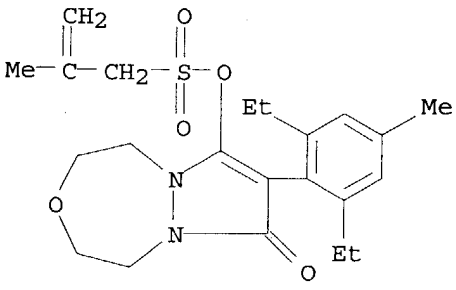
1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



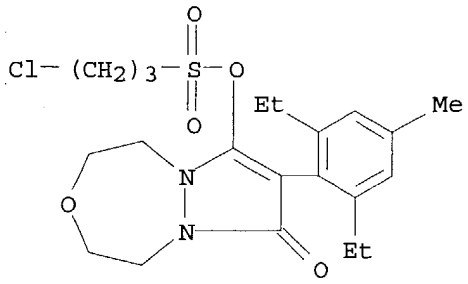
RN 328932-78-1 USPATFULL
CN Benzenemethanesulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



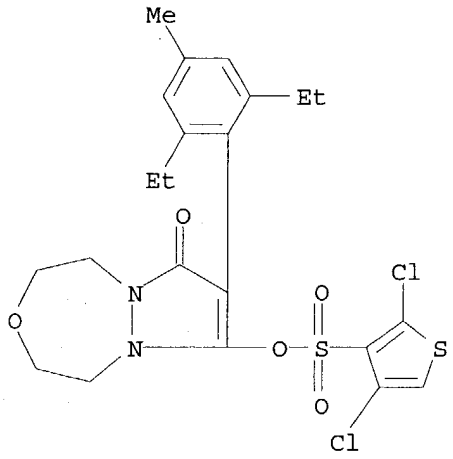
RN 328932-79-2 USPATFULL
CN 2-Propene-1-sulfonic acid, 2-methyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



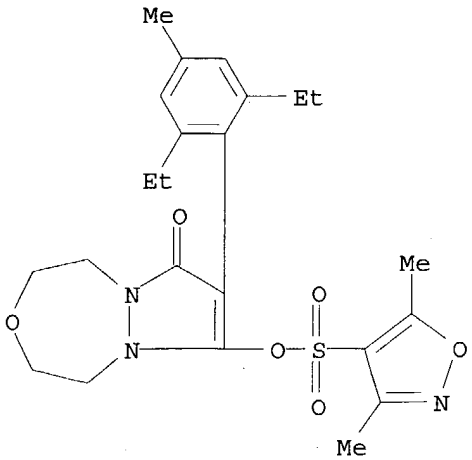
RN 328932-80-5 USPATFULL
CN 1-Propanesulfonic acid, 3-chloro-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 328932-81-6 USPATFULL
CN 3-Thiophenesulfonic acid, 2,4-dichloro-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)

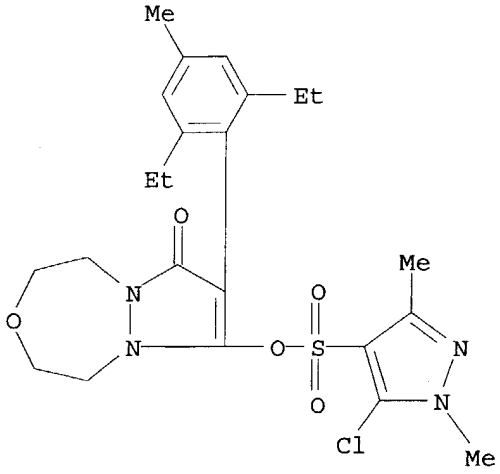


RN 328932-82-7 USPATFULL
CN 4-Isoxazolesulfonic acid, 3,5-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)

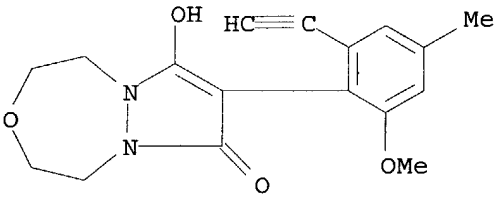


RN 328932-83-8 USPATFULL

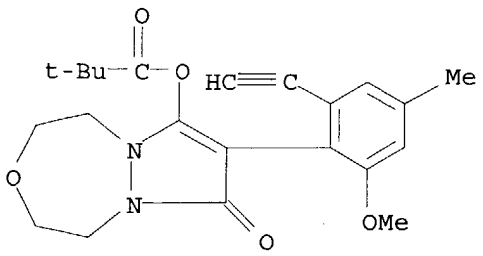
CN 1H-Pyrazole-4-sulfonic acid, 5-chloro-1,3-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



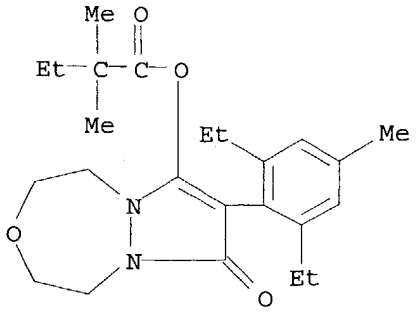
RN 328932-84-9 USPATFULL
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethynyl-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



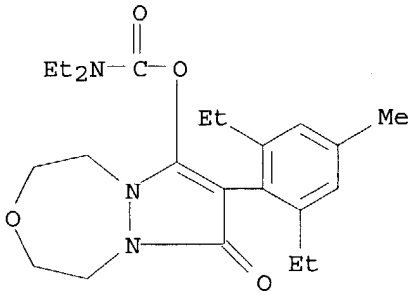
RN 328932-85-0 USPATFULL
CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethynyl-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



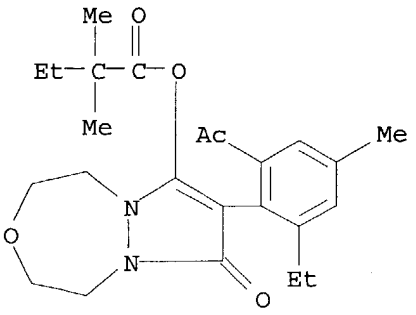
RN 328932-91-8 USPATFULL
CN Butanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



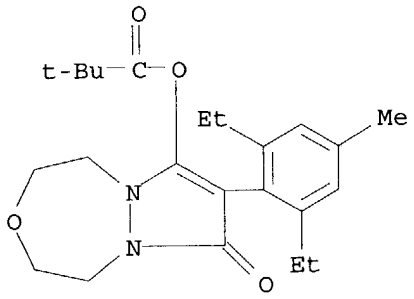
RN 328932-92-9 USPATFULL
CN Carbamic acid, diethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 328932-93-0 USPATFULL
CN Butanoic acid, 2,2-dimethyl-, 8-(2-acetyl-6-ethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



IT **243973-20-8P**
(prepn. as herbicides for use with safeners)
RN 243973-20-8 USPATFULL
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



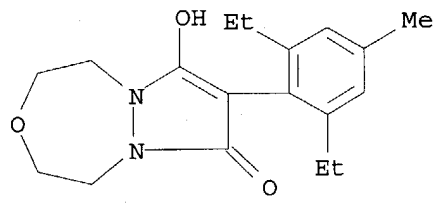
IT **328932-94-1 328932-95-2 328932-96-3**
328932-97-4 328932-98-5 328932-99-6
328933-00-2
(safened herbicide)

RN 328932-94-1 USPATFULL

CN Acetic acid, [(5-chloro-8-quinolinyl)oxy]-, 1-methylhexyl ester, mixt. with 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one (9CI) (CA INDEX NAME)

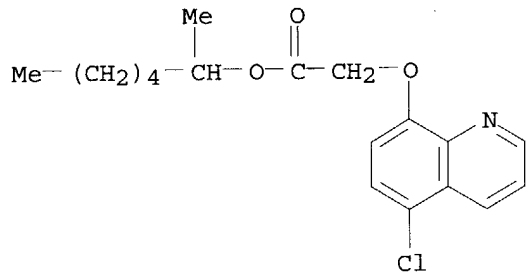
CM 1

CRN 243973-19-5
CMF C18 H24 N2 O3



CM 2

CRN 99607-70-2
CMF C18 H22 Cl N O3

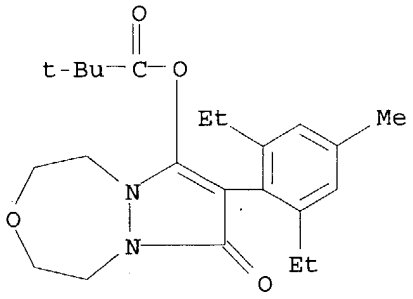


RN 328932-95-2 USPATFULL

CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, mixt. with 1-methylhexyl [(5-chloro-8-quinolinyl)oxy]acetate (9CI) (CA INDEX NAME)

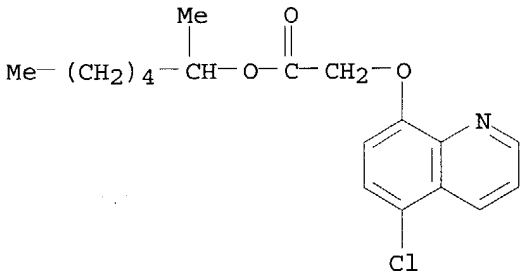
CM 1

CRN 243973-20-8
CMF C23 H32 N2 O4



CM 2

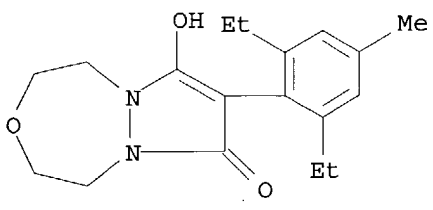
CRN 99607-70-2
CMF C18 H22 Cl N O3



RN 328932-96-3 USPATFULL
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy-, mixt. with Merge (9CI) (CA INDEX NAME)

CM 1

CRN 243973-19-5
CMF C18 H24 N2 O3



CM 2

CRN 147230-14-6

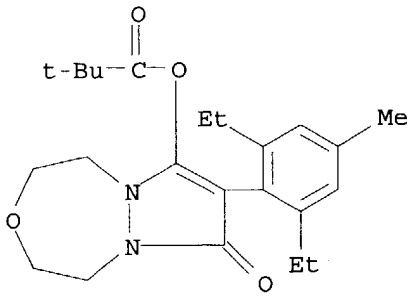
CMF Unspecified
CCI MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 328932-97-4 USPATFULL
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, mixt. with Merge (9CI) (CA INDEX NAME)

CM 1

CRN 243973-20-8
CMF C23 H32 N2 O4



CM 2

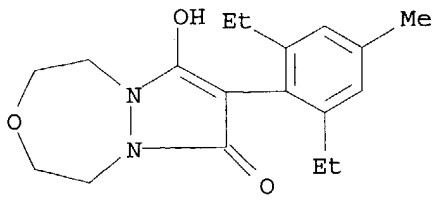
CRN 147230-14-6
CMF Unspecified
CCI MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 328932-98-5 USPATFULL
CN Acetic acid, [(5-chloro-8-quinolinyl)oxy]-, 1-methylhexyl ester, mixt. with 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one and Merge (9CI) (CA INDEX NAME)

CM 1

CRN 243973-19-5
CMF C18 H24 N2 O3



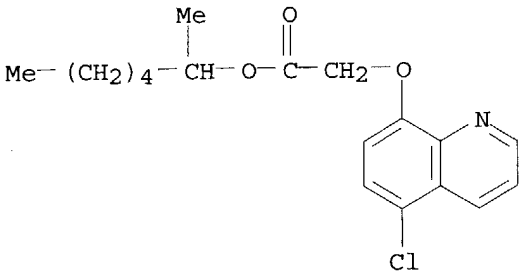
CM 2

CRN 147230-14-6
CMF Unspecified
CCI MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

CM 3

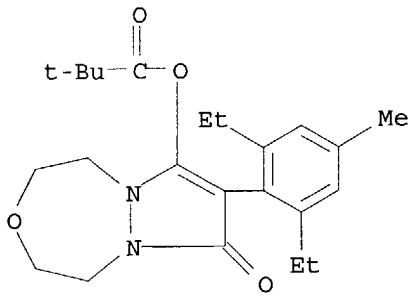
CRN 99607-70-2
CMF C18 H22 Cl N O3



RN 328932-99-6 USPATFULL
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, mixt. with Merge and 1-methylhexyl [(5-chloro-8-quinolinyl)oxy]acetate (9CI) (CA INDEX NAME)

CM 1

CRN 243973-20-8
CMF C23 H32 N2 O4



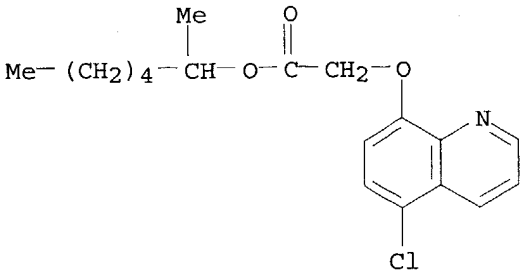
CM 2

CRN 147230-14-6
CMF Unspecified
CCI MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

CM 3

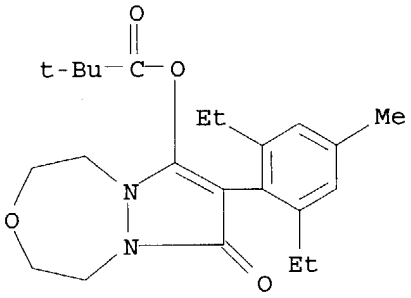
CRN 99607-70-2
CMF C18 H22 Cl N O3



RN 328933-00-2 USPATFULL
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, mixt. with Amigo and 1-methylhexyl [(5-chloro-8-quinolinyl)oxy]acetate (9CI) (CA INDEX NAME)

CM 1

CRN 243973-20-8
CMF C23 H32 N2 O4



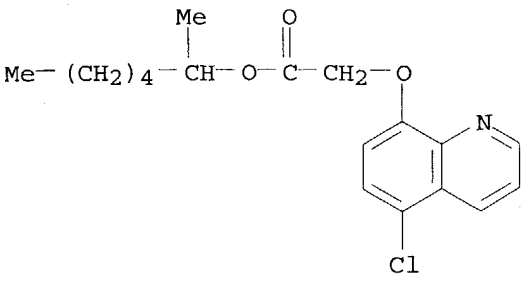
CM 2

CRN 159605-28-4
CMF Unspecified
CCI MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

CM 3

CRN 99607-70-2
CMF C18 H22 Cl N O3



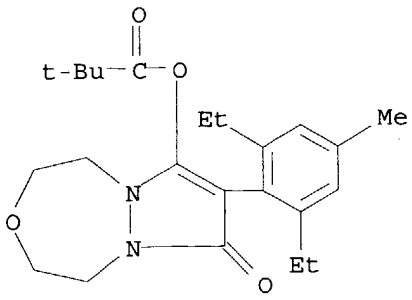
L11 ANSWER 15 OF 18 USPATFULL on STN
ACCESSION NUMBER: 2003:109187 USPATFULL
TITLE: Process for the preparation of herbicidal derivatives
INVENTOR(S): Maetzke, Thomas, Munchenstein, SWITZERLAND
Mutti, Rene, Basel, SWITZERLAND
Szczepanski, Henry, Wallbach, SWITZERLAND
PATENT ASSIGNEE(S): Syngenta Crop Protection, Inc., Greensboro, NC, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6552187	B1	20030422	
	WO 2000078881		20001228	
APPLICATION INFO.:	US 2001-980240		20011129	(9)
	WO 2000-EP5476		20000614	

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: McKane, Joseph K.
ASSISTANT EXAMINER: Anderson, Rebecca
LEGAL REPRESENTATIVE: Teoli, Jr., William A., Allen, Rose M.
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT: 1430
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB ##STR1##

A process for the preparation of compounds of formula (I), which process comprises reacting a compound of formula (II), in an inert organic solvent, optionally in the presence of a base, with a compound of formula (IV), (IVa) or (IVb), and optionally converting the resulting compound of formula (I) wherein G is a metal ion equivalent or an ammonium cation, by salt conversion into the corresponding salt of formula (I) wherein G is a sulfonium or phosphonium cation, or by treatment with a Bronsted acid into the corresponding compound of formula (I) wherein G is hydrogen, and `in situ` conversion of compounds of formula (I) with an electrophile of formula (XII) or (XIId) G.sub.0--L (XII) or R.sub.32--N.dbd.C.dbd.X.sub.3 (XIId), optionally in the presence of an acid-binding agent or a catalyst, to the compounds of formula (Ia).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **243973-20-8P**
(prepn. of 3-hydroxy-4-aryl-5-oxopyrazoline derivs.)
RN 243973-20-8 USPATFULL
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



L11 ANSWER 16 OF 18 USPATFULL on STN

ACCESSION NUMBER:	2002:152591 USPATFULL
TITLE:	Herbicidally active 3-hydroxy-4-aryl-5-oxopyrazoline derivatives
INVENTOR(S):	Muhlebach, Michel, Binningen, SWITZERLAND Glock, Jutta, Mumpf, SWITZERLAND Maetzke, Thomas, Munchenstein, SWITZERLAND Stoller, Andre, Blotzheim, FRANCE
PATENT ASSIGNEE(S):	Syngenta Crop Protection, Inc., Greensboro, NC, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6410480	B1	20020625	
	WO 9947525		19910923	
APPLICATION INFO.:	US 2000-646142		20000913	(9)
	WO 1999-EP1593		19990311	
			20000913	PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	CH 1998-616	19980313
	CH 1998-2431	19981208

DOCUMENT TYPE:	Utility
FILE SEGMENT:	GRANTED
PRIMARY EXAMINER:	Ramsuer, Robert W.
LEGAL REPRESENTATIVE:	Teoli, Jr., William A.
NUMBER OF CLAIMS:	18
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT:	2735

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

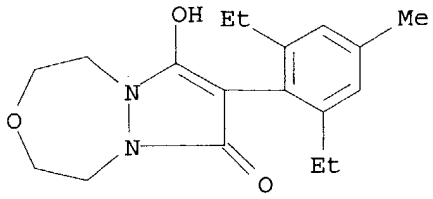
AB The present invention relates to novel herbicidally active 3-hydroxy-4-aryl-5-oxopyrazoline derivatives, to processes for their preparation, to compositions which comprise these compounds and may additionally comprise safeners, and to the use of these compounds as herbicides for controlling weeds and grasses, in particular in crops of useful plants. ##STR1##

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

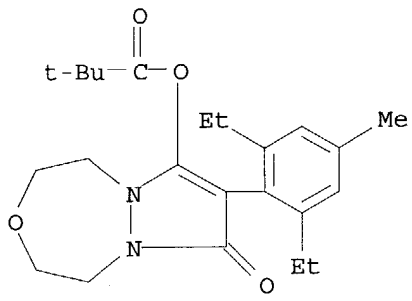
IT **243973-19-5P 243973-20-8P 243973-21-9P**
243973-26-4P 243973-27-5P 243973-28-6P
243973-60-6P 243973-61-7P 243973-67-3P
243973-68-4P
(prepn. of fused 3-hydroxy-4-aryl-5-oxopyrazolines as herbicides)

RN 243973-19-5 USPATFULL

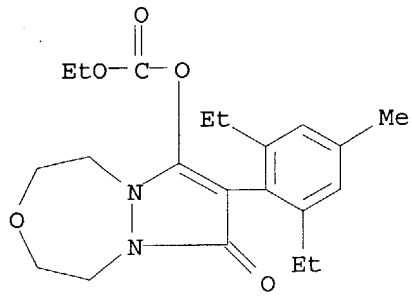
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



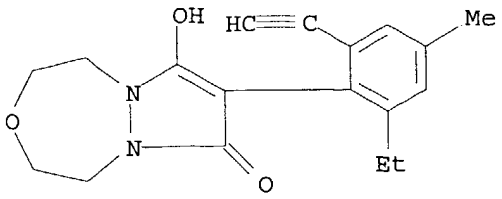
RN 243973-20-8 USPATFULL
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



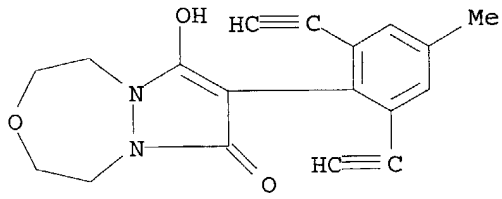
RN 243973-21-9 USPATFULL
CN Carbonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ethyl ester (9CI) (CA INDEX NAME)



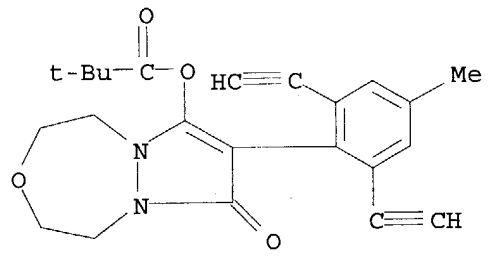
RN 243973-26-4 USPATFULL
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-6-ethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



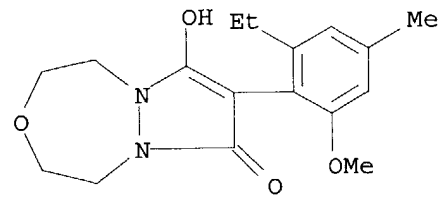
RN 243973-27-5 USPATFULL
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



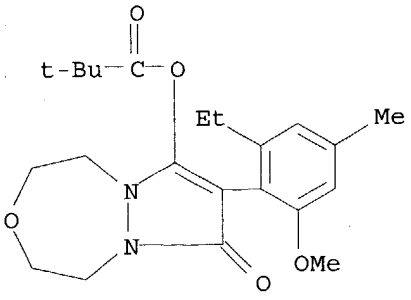
RN 243973-28-6 USPATFULL
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



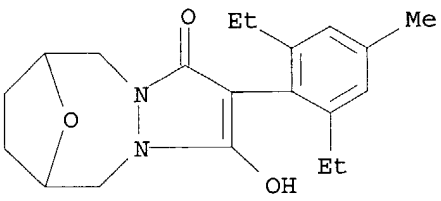
RN 243973-60-6 USPATFULL
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



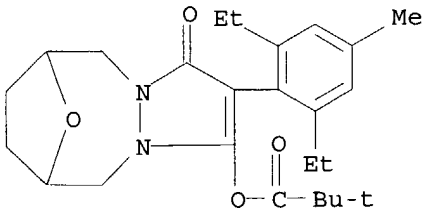
RN 243973-61-7 USPATFULL
CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethyl-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 243973-67-3 USPATFULL
CN 6,9-Epoxy-1H-pyrazolo[1,2-a][1,2]diazocin-1-one, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8,9,10-hexahydro-3-hydroxy- (9CI) (CA INDEX NAME)



RN 243973-68-4 USPATFULL
CN Propanoic acid, 2,2-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8,9,10-hexahydro-1-oxo-6,9-epoxy-1H-pyrazolo[1,2-a][1,2]diazocin-3-yl ester (9CI) (CA INDEX NAME)



L11 ANSWER 17 OF 18 USPATFULL on STN
ACCESSION NUMBER: 85:43148 USPATFULL
TITLE: 1,4-Napthoquinone derivatives and use thereof
INVENTOR(S): Ikushima, Koichi, Toyonaka, Japan
Tanaka, Hirokazu, Takarazuka, Japan
Osamu, Ohe, Osaka, Japan
Kino, Eiko, Hadano, Japan
Kohsaka, Masanobu, Sakai, Japan
Aoki, Hatsuo, Ikeda, Japan
Arakawa, Akira, Kusatsu, Japan
Imanaka, Hiroshi, Osaka, Japan
PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Osaka, Japan
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4530845		19850723

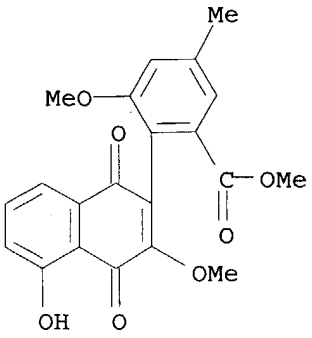
APPLICATION INFO.: US 1983-511268 19830706 (6)
RELATED APPLN. INFO.: Division of Ser. No. US 1981-317897, filed on 31 Oct 1981, now patented, Pat. No. US 4414226

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1980-29675	19800306

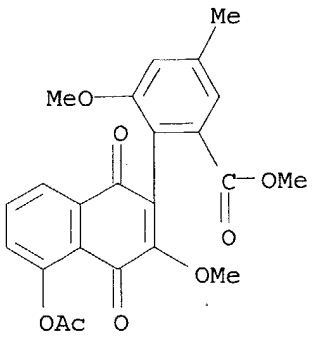
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Raymond, Richard L.
ASSISTANT EXAMINER: Covington, Raymond
LEGAL REPRESENTATIVE: Bierman, Jordan B.
NUMBER OF CLAIMS: 10
EXEMPLARY CLAIM: 1
LINE COUNT: 1091
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB 1,4-naphthoquinone derivatives represented by the following general formula: ##STR1## (wherein R.sup.1 represents a hydrogen atom, a hydroxy group, a lower alkoxy group or an arylthio group, R.sup.2 represents a carboxy group, an esterified carboxy group or an amidated carboxy group or, when taken together, R.sup.1 and R.sup.2 form a group of ##STR2## R.sup.3 represents a hydrogen atom or a lower alkyl group, R.sup.4 represents a lower alkyl group, R.sup.5 represents a hydrogen atom or a halogen atom, and R.sup.6 represents a hydrogen atom, a lower alkyl group or a lower alkanoyl group), and the salts of the carboxy group thereof, which are novel compounds having an anticoccidium activity, and which can be obtained by synthesis or, partly, by cultivation of Streptomyces auranticolor.

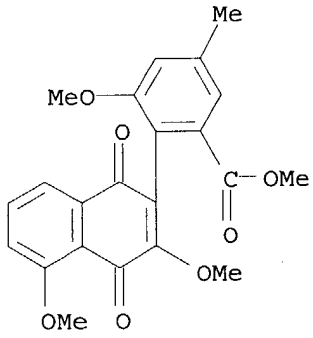
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **76959-18-7P 76959-19-8P 80389-41-9P**
(prepn. and anticoccidium activity of)
RN 76959-18-7 USPATFULL
CN Benzoic acid, 2-(1,4-dihydro-5-hydroxy-3-methoxy-1,4-dioxo-2-naphthalenyl)-3-methoxy-5-methyl-, methyl ester (9CI) (CA INDEX NAME)



RN 76959-19-8 USPATFULL
CN Benzoic acid, 2-[5-(acetyloxy)-1,4-dihydro-3-methoxy-1,4-dioxo-2-naphthalenyl]-3-methoxy-5-methyl-, methyl ester (9CI) (CA INDEX NAME)



RN 80389-41-9 USPATFULL
CN Benzoic acid, 2-(1,4-dihydro-3,5-dimethoxy-1,4-dioxo-2-naphthalenyl)-3-methoxy-5-methyl-, methyl ester (9CI) (CA INDEX NAME)



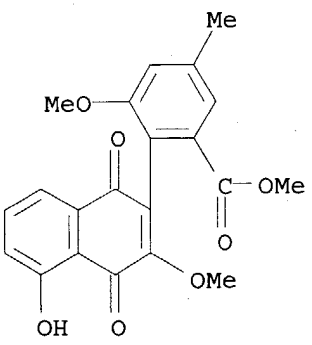
L11 ANSWER 18 OF 18 USPATFULL on STN
ACCESSION NUMBER: 83:51994 USPATFULL
TITLE: 1,4-Naphtoquinone derivatives and their use in treating coccidiosis
INVENTOR(S): Ikushima, Koichi, Toyonaka, Japan
Tanaka, Hirokazu, Takarazuka, Japan
Osamu, Ohe, Osaka, Japan
Kino, Eiko, Hadano, Japan
Kohsaka, Masanobu, Sakai, Japan
Aoki, Hatsuo, Ikeda, Japan
Arakawa, Akira, Kusatsu, Japan
Imanaka, Hiroshi, Osaka, Japan
PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Osaka, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 4414226		19831108	
	WO 8102574		19810917	
APPLICATION INFO.:	US 1981-317897		19811030	(6)
	WO 1981-JP46		19810306	
			19811030	PCT 371 date
			19811030	PCT 102(e) date

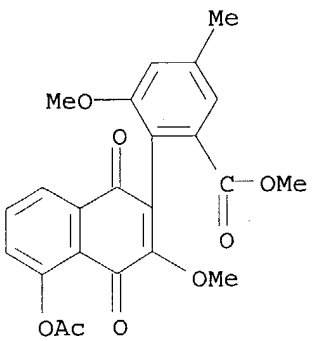
	NUMBER	DATE
PRIORITY INFORMATION:	JP 1980-29675	19800306

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Fan, Jane T.
LEGAL REPRESENTATIVE: Bierman, Jordan B., Bierman, Linda
NUMBER OF CLAIMS: 6
EXEMPLARY CLAIM: 1
LINE COUNT: 1084
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB 1,4-naphthoquinone derivatives represented by the following general formula: ##STR1## (wherein R.sup.1 represents a hydrogen atom, a hydroxy group, a lower alkoxy group or an arylthio group, R.sup.2 represents a carboxy group, an esterified carboxy group or an amidated carboxy group or, when taken together, R.sup.1 and R.sup.2 form a group of ##STR2## R.sup.3 represents a hydrogen atom or a lower alkyl group, R.sup.4 represents a lower alkyl group, R.sup.5 represents a hydrogen atom or a halogen atom, and R.sup.6 represents a hydrogen atom, a lower alkyl group or a lower alkanoyl group), and the salts of the carboxy group thereof, which are novel compounds having an anticoccidium activity, and which can be obtained by synthesis or, partly, by cultivation of Streptomyces auranticolor.

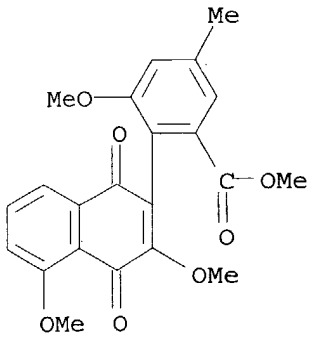
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **76959-18-7P 76959-19-8P 80389-41-9P**
(prepn. and anticoccidium activity of)
RN 76959-18-7 USPATFULL
CN Benzoic acid, 2-(1,4-dihydro-5-hydroxy-3-methoxy-1,4-dioxo-2-naphthalenyl)-3-methoxy-5-methyl-, methyl ester (9CI) (CA INDEX NAME)



RN 76959-19-8 USPATFULL
CN Benzoic acid, 2-[5-(acetyloxy)-1,4-dihydro-3-methoxy-1,4-dioxo-2-naphthalenyl]-3-methoxy-5-methyl-, methyl ester (9CI) (CA INDEX NAME)



RN 80389-41-9 USPATFULL
CN Benzoic acid, 2-(1,4-dihydro-3,5-dimethoxy-1,4-dioxo-2-naphthalenyl)-3-methoxy-5-methyl-, methyl ester (9CI) (CA INDEX NAME)



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This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

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